

UNIVERSAL DECIMAL CLASSIFICATION



Prepared by the B.S.I. under the auspices of the International Commission on Decimal Classification of the International Federation for Documentation, and with the concurrence of the Education Foundation, Lake Placid Club, New York.



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FOREWORD

THE English edition of the Universal Decimal Classification is being prepared and published by the British Standards Institution at the joint request of the British Society for International Bibliography and the Association of Special Libraries and Information Bureaux, and has the approval of the Educational Foundation, Lake Placid Club, New York, the publishers of the Dewey Decimal Classification. The Universal Decimal Classification is an extension of the Dewey Decimal Classification, and has been prepared for use in classifying original articles in periodical literature and documents of all kinds.

The present work is an abridgment of the Universal Decimal Classification and has been prepared, in response to a widespread demand, as an introduction to the use of the full schedules and as a manual for classifying books in libraries, for which the full schedules are unduly subdivided. It is based on the official abridgment in the Dutch language, fifth edition (F.I.D. Publication, No. 217), with the help of the abridgment published in English by H.M. Stationery Office, under the title "Classification for Works in Pure and Applied Science in the Science Museum Library," third edition. The latter document was concerned mainly with the sciences, but the present work covers the whole field of knowledge.

The technical work of editing the tables has been carried out by a large number of specialists, too numerous to mention, without whose help the edition could not have been prepared, and to whom the British Standards Institution takes this opportunity of expressing its indebtedness.

It is hoped that users will find this abridgment of use in the classification of documents in their libraries, as well as a guide to the consultation of the full tables.* It will be noticed that a few subdivisions may not be as fully developed or as up to date as modern library needs may require. Thorough revision in this respect would have entailed considerable delay in publication. In view of the pressing demand, it has been thought better to publish the abridgment in its present state; and to wait for users' criticisms, which it is hoped to incorporate in a new edition in due course. The British Standards Institution would be grateful for any such suggestions that may occur to readers.

November 1947.

* In this edition only a short alphabetical index is included. A more complete one will be published later as a supplementary volume.

Introduction to English Abridged Edition

HISTORY

The idea of arranging literature and references to it through the use of a subject classification with a decimal notation and an alphabetical index to the numbered classes was conceived by Melvil Dewey, then librarian of Amherst College Library, Amherst, Mass., U.S.A. Years of study had convinced him that the usefulness of libraries could be much increased, without additional expense, by the adoption of a properly developed subject classification, by means of which the users of the libraries could ascertain what documents had been collected on the subjects that they wished to study. The Dewey "Decimal Classification and Relative Index" was first put into operation in Amherst College Library in 1873. The classification was submitted as the thesis for his Master's Degree in 1875, and first published in 1876. Subsequently, Melvil Dewey became librarian to Columbia College Library and afterwards to New York State Library. The first edition of the classification comprised only twenty-four pages, of which half were devoted to the index. The value of the classification was soon realized and its use rapidly extended into every corner of the United States. New editions were frequently required, each more extended than the previous one, and now the current fourteenth edition, dated 1942, comprises 1,929 pages and 1 plate, a portrait of its celebrated author.

As the result of the first International Conference on Bibliography, held in Brussels in 1895, the International Institute for Bibliography (I.I.B.)* was founded to promote the organization of a comprehensive subject index to the accumulating records of intellectual achievement. It was resolved to use the Dewey classification as the basis of the subject index, and an agreement was concluded between Dewey and the I.I.B. to extend the Dewey classification for this purpose. At that time the fifth American edition had appeared, and this still comprised only a few thousand subdivisions. The first task of the I.I.B. was to elaborate the classification in sufficient detail. As this was a considerable piece of work, publication took place in parts. The first complete international edition was published in 1905, and was given the title "Manuel du Repertoire Bibliographique Universel" because it served, in the main, as an index to the great card subject index to documents, which was then being maintained in Brussels. The new schedules comprised some 33,000 subdivisions with an alphabetical index of 38,000 entries.

In following years the schedules were slowly extended. In 1912 a supplement appeared, of a thousand or more subdivisions. The world war of 1914-18 interrupted the activity of the I.I.B. and international contact was only re-established in 1920. In 1923 an international commission for re-organization was set up, which in 1924 established its Secretariat at Deventer in Holland, and which was transferred, subsequently, to The Hague, Willem Witsenplein, 6.

A new edition, the second international edition, with the title "Classification Decimale Universelle," was published

during the period 1927-33. The chief editorship of the section devoted to the humanities was vested in MM. P. Otlet and H. La Fontaine, and the pure and applied science section was edited by Ir. F. Donker Duyvis. In all, about forty specialists collaborated in the preparation of the detailed subdivisions.

This new edition, with some 70,000 subdivisions, formed the basis for further collaboration which was then organized by the International Commission for Universal Classification of the I.I.B. On these lines the classification has expanded to more than 100,000 subdivisions.

In 1933 the third edition of the Universal Decimal Classification was undertaken in German. The fourth edition in English was begun in 1936, and in 1939 the fifth edition, once again in French, was commenced.

The parts of the German edition, so far published, comprise the sections 0/5 and 63/66. So far, the English edition comprises sections 0, 5, and 621.3. Of the French fifth edition the sections 0, 2, 3, 61, 62 and 65 have appeared.

Besides these editions of the full schedules, abridged editions have been published in Czech, Dutch, English, Italian, Norwegian, Polish, Roumanian, Russian and Spanish. In addition various selected or abridged schedules, for use in specialist fields, have appeared in different languages.

PRINCIPLES

The principles of the Universal Decimal Classification are of three kinds:

In the first place, it attempts to be a **CLASSIFICATION** in the strict sense of the word, and in this sense to group similar ideas in their special aspects. In contrast, for example, to an alphabetical arrangement of subjects, it aims at bringing together related concepts and groups of concepts. Classification, which had originally been based exclusively upon an arbitrary systematization of knowledge now operates in the Universal Decimal Classification according to an analysis of ideas (see pp. 109-10).

In the second place, it is fundamental that the classification is **UNIVERSAL**, that is to say, it sets out to include every subject of human knowledge, and to group these subjects from every point of view. In this respect, universal classification stands in contrast to individual classification, the latter being developed from the idea that a specific specialized subject can be shut away into a rounded-off whole, effectively separated from other specialized subjects. With universal classification, each specialist may relate his special subject to any branch of human thought, and nothing in the nature of "closed" specialist fields is admitted. Its universal character allows for the classification of individual ideas from different points of view. One specialist will not regard a specific subject from the same aspect as another specialist. By means of a system of general analytical and mutually combinable numbers with special symbols, denoting different commonly occurring points of view, the Universal Decimal Classification makes it possible to express arbitrary combinations of such general points of view with specific concepts.

Furthermore, ideas compounded of two or more single concepts are expressed by compound classification numbers

* The name was changed to International Institute of Documentation in 1931. The headquarters were transferred to The Hague. In 1937, following a recommendation of the World Congress on Universal Documentation held in Paris, the Institute became the International Federation for Documentation (F.I.D.).

built up of the individual numbers denoting these single concepts. Index entries are filed for each of these numbers, so that it is easy to locate the data corresponding to each point of view, regardless of the subjective point of view of the classifier.

In the third place, it is a DECIMAL classification. The whole of human knowledge is divided into ten groups, each of these groups being divided afresh by the addition of more decimal places. Contrary to a misconception of the Universal Decimal Classification often held, this principle is placed third in importance. The fact that Arabic numerals are used as classification symbols, which look like decimal fractions, has certain technical advantages in that it permits the intercalation of new subdivisions at any point, and facilitates the learning by heart of the symbols. Similar advantages are, of course, obtainable with other systems of symbols. It should further be observed that the decimal character in no sense implies that the systematic division of a class occurs in tens.

STRUCTURE

As explained above, the structure of the Universal Decimal Classification is based on a decimal system.

The ten main sections of the subdivisions, described below as "Main Numbers," run as follows:

- 0 Generalities
- 1 Philosophy. Psychology
- 2 Religion. Theology
- 3 Social sciences. Law. Education
- 4 Philology
- 5 Natural sciences
- 6 Applied science. Medicine. Technology
- 7 Arts. Entertainment. Sport
- 8 Literature
- 9 Geography. Biography. History

These main sections are further subdivided decimally as, for example:

- | | |
|------------|---|
| 6 | Applied science |
| 63 | Agriculture. Forestry. Stockbreeding. |
| | Animal produce. Hunting. Fishing |
| 631 | Agriculture in general. Agronomy |
| 631.8 | Fertilizers |
| 631.81 | Nature. Use |
| 631.816 | Mode of application |
| 631.816.1 | Preparation. Necessary quantity |
| 631.816.12 | Necessary quantity for the maintenance of fertility |

All the main classes, 0/9, do not necessarily split up into 10 subsections; on the contrary, scientific division of a class requires, as a rule, less than 10 subsections. For example, in the main section, 5, pure science, the subsidiary ideas are denoted progressively by varying numbers of digits, so that certain places, or numbers, can be reserved for new subsidiary ideas that may later be required.

In branches of knowledge for which logical systems of classification are as yet less advanced, it happens frequently that an arbitrary classification into more than 10 subclasses seems to be desirable. In such cases classification is brought about by using under a main heading (not under a single-figure main heading) perhaps two significant figures. In this manner we are able to arrange, if necessary, a hundred equivalent subdivisions (so-called centesimal classification). Such classification is applied, for example, in Botany 58.

From the above it is evident that the length of a decimal symbol is not necessarily the measure of the importance of a given idea.

The Universal Decimal Classification comprises two kinds of numbers, namely:

(a) **Main Numbers** which express the main ideas and their subdivisions. These consist of one of the numerals 0 to 9 and subdivisions thereof, e.g. 548 Crystallography. And

(b) **Auxiliary Numbers** which are characterized by the inclusion of non-numerical symbols and serve to express the finer definition of an idea as regards point of view, place, time, form, language, etc. See summary and explanation on pp. 108 et seq.

The main numbers may be combined mutually into compound decimal numbers and may be further combined with the auxiliary numbers by simply adding these. Thus we get **Compound Decimal Numbers** which relate to:

(a) Compound ideas (e.g. the economic situation of the rubber industry). And

(b) Related specific ideas (e.g. bicycle-brakes).

Compound Ideas are expressed by joining two decimal numbers by means of connecting symbols, that is to say, by means of the symbol + (plus), e.g. 4+8 (Philology and Belles lettres); the symbol / (stroke), meaning up to and including, e.g. 675/677 (Leather industry up to and including the Textile industry); and by the symbol : (colon) meaning in relation to, e.g. 676 : 677 (The Paper industry in relation to the Textile industry).

Related Specific Ideas can be brought into conjunction by making use of the common and special auxiliary numbers. Use is made of the common and special auxiliary numbers only when there is no main number available, which expresses exactly the main idea to be classified.

Parentheses () and brackets [], inverted commas " ", equals =, the figure .0 and the hyphen - are used as symbols for distinguishing the auxiliary numbers. For further explanation of the auxiliary numbers, and, in particular, for the preferable avoidance of their use, see p. 109.

Finally, it should be noted that the punctuation has no significance in designating an idea; it serves solely to facilitate reading the numbers.

THE U.D.C. AND THE PHILOSOPHICAL CLASSIFICATION OF KNOWLEDGE

The Universal Decimal Classification does not pretend to provide a philosophical classification of knowledge. The aim of the classification is to make possible the grouping together of references to literature on related subjects so as to facilitate the finding of the literature. For this purpose, the ideal arrangement of the great specialist fields of knowledge is of less practical importance than a reasonably detailed classification to meet scientific requirements.

Nevertheless, if only from the historical standpoint, it is of interest to know how Dewey built up his system at the time. He placed in group 0 **Generalities** relating to documentation and bibliography before passing on to the actual classification of knowledge. Consistently with current systems of classifying the subjects of human knowledge, Dewey's starting-point was critical speculative thought, so that group 1 was **Philosophy**. The individual mind, itself not yet engrossed in the multiplicity of phenomena but concentrated upon the all-embracing, comes next to **Religion** (group 2) wherein Dewey begins with the doctrine of God and religion to end up with grouping men into ecclesiastical communities and religious sects. Consequently in the first two groups we find, as it were, a transition from the individual conception to the collective conception, a transition which assumes a more concrete form in group 3, where the sciences of human relationship, the **Social Sciences**, are found. These include first general description and speculation, *Statistics*, and the formation of political relationships, *Political Science*, economic collaboration, *Economics*. Then, coming to more concrete ideas, the original main divisions of this group 3 begin to resolve into order: *Law*, *Administration*, *Social Welfare*, *Education*, *Commerce*, and lastly, the detailed description of *Habits and Customs*. Next, the community which collects and builds up its knowledge makes use of **Language** (group 4), or word-science, which, of the sciences properly so-called, is the primary one. Then follows first **Pure Science**, which is elaborated in group 5.

Here from the *Mathematical Sciences*, by way of inanimate nature, *Astronomy, Physics, Chemistry, and Geology*, Dewey comes to the *Biological Sciences*. The Pure Sciences lead to the *Applied Sciences* (group 6) with *Medical and Allied Sciences*, the first group worked out to follow the biological sciences. The remaining applied sciences in group 6 are then the technical sciences, where the *General Engineering Sciences* come first, and, in particular, first of all, the application of the various sources of energy are included: *Mechanical and Muscular Energy*. This explains the position of *Electrical Engineering*, which has so often given rise to misunderstanding. After the more or less abstract class *Engineering Sciences* (group 62) there follows applications to the *Agricultural Industries* (group 63), to the activities of the private household, *Domestic Economy* (group 64), to the organization of *Commerce, business and Communications* (group 65). The industry of communications is here developed in the widest sense, and thus includes communication by word of mouth, by document, by signal, etc., so that we find here *Printing and Publishing* as well as the organization of *Signalling, Telegraphy, Telephony, and Radio Communication, Railway Transport, etc.* In sequence, general industrial sciences follow, e.g. the application of technology to specific raw materials and their manufacture into simple materials, *Chemical Technology, Metallurgy* (group 66), the manufacture of raw materials into simple materials or articles of one single material, *Manufactures* (group 67), the manufacture into articles of several materials, *Mechanical Trades* (group 68), and lastly, the fabrication of complete structures, the *Building Industry* (group 69). Finally, Dewey connects to objective applied sciences the subjective artistic element, and thus group 7 comprises the *Applied and Pure Fine Arts*, where first *Building Construction and Architecture* connect with the *Building Industry* (group 69). The development in group 7 is meant to run from what is closely connected with technology to what is most remote from it, and arrives in this way at *Literature* (group 8). Finally, in group 9 Dewey has introduced the space and time features *Geography, Biography and History*, in which all the foregoing subjects of knowledge are included.

It will be seen that this arrangement is sufficiently logical. As has been said, the actual order of the main groups is of small importance. The above synopsis serves merely to remove some slight misunderstandings, for instance, that this Dewey classification has been derived from Francis Bacon's classification of knowledge.

What is of more real interest to scientific classification is that the original Dewey classification was not in fact universal, because it lacked the apparatus for combining the symbols, and thus the possibility of regrouping classes according to specific viewpoints. In the original classification, the subdivision was mainly teleological, that is to say, subdivision according to purpose. For example, because oil was formerly used almost exclusively for illumination, oils were classified in the chapter on illumination. The rule now followed is that, in each case substances, raw materials, and products are first classified according to origin. Their grouping according to purpose can then be made by combining their classification symbols with those specifying the purpose in view, or, possibly, with symbols denoting some special, singular, separate aspect of the application, in case such application is so extensive that for it singular, separate designation is justified.

Sometimes, classification from the point of view of application leads to the same thing being found in different places in the Universal Decimal Classification, though every time from some different point of view. Now, in the simple application of the Universal Decimal Classification this can be inconvenient, if it is required, above all things, to give a thing only one classification symbol, irrespective of its various viewpoints. In such a case we have, therefore, to select one classification setting for the thing concerned. If for our purpose no special preference exists for any specific

point of view, we select the classification number which occurs first in the decimal sequence. Thus, if we want to bring together everything about the substance "radium," we select the number 546.432, under which radium comes first in the tables.

REVISION OF THE U.D.C.

It is obvious that in so extensive a work as the Universal Decimal Classification, which now comprises more than 100,000 subdivisions, correction and amplification is continually needed. Correction is required not only on the ground of inaccuracy, of which the compilers of the Universal Decimal Classification may have been guilty, but also on the ground that the sciences themselves retain certain erroneous conceptions which gradually give place to more correct ones. So long as such erroneous ideas in specific specialist fields are still in use, the classification must keep them in mind, because publications may arise concerning such conceptions and require to be classified.

The revision of the Universal Decimal Classification is undertaken by an International Commission consisting of representatives of a number of national and international organizations. Proposals for revision are collected by the Commission at The Hague, and after critical examination are despatched thence, in the form of so-called PE notes (Projets d'extensions), to a large number of experts, with the request that criticisms may be received within four months. The proposals are amended on the basis of incoming criticism and are finally established by the Commission. In this way, a complete manuscript of the Universal Decimal Classification is made at The Hague on the authority of which the successive editions of the Universal Decimal Classification in various languages are published.

The following procedure is recommended:

(1) A proposal for extension or correction should in the first instance be sent to the national secretariat in the country in which the proposal originates, and, if possible, it should be scrutinized by the national committee of the Universal Decimal Classification in that country.* The proposal should be accompanied by an explanatory statement by its author.

(2) The proposal is then sent by the national committee to the general secretariat at The Hague, which may advise revision of the proposal, but distributes the proposal, even if its advice is not followed.

(3) The proposals are circulated to the members of the International Commission of the Universal Decimal Classification and to all those who receive the PE notes. If the proposals are in any way revolutionary in nature and the Secretary of the Classification Commission judges that discussion in a plenary committee meeting is desirable, the proposals are sent out as PP notes (Projets provisoires).

(4) After the aforesaid term of four months a Central Classification Committee (C.C.C.) of the International Commission, composed of members concerned with the preparation of complete editions of the U.D.C., submits the proposals to a final scrutiny, and if the C.C.C. does not see any objection to any proposal, it is considered as accepted. If, however, they consider the proposal unsuitable, or if objections have arisen and the proposal has not been withdrawn by the author, the proposal is reissued as a PP note.

In the revision of the Classification, the rule obtains that the significance of existing decimal numbers may be extended or restricted, but may not be completely altered. If a subdivision of the classification is obviously quite obsolete, then this subdivision can be neglected and a new classification of the special field concerned can be developed under a new "free" number. The old classification number thus gradually "expires," but the old number may not be used for a new meaning. Thus users of the old classification cannot become confused. As the Universal Decimal

* For Great Britain, 28 Victoria Street, London, S.W.1.

Classification still contains a surplus of "free" numbers, the "expiration system" can be applied without objection.

Indeed, plans were once made for a complete revision of the Universal Decimal Classification. However, so great a revision, which would have amounted substantially to a regrouping of the principal sciences as well as certain simplifications in the use of the classification symbols, seemed, for the time being, unnecessary in practice because, as has been said, for practical documentary work the actual sequence of the principal sciences is of little importance.

ADVANTAGES OF THE U.D.C.

For documentation centres, as well as for public and private collections of bibliographical data and records, and in various cases also for libraries and museums, a standardized classification is recommended, especially for international collaboration. The Universal Decimal Classification satisfies these demands in that all documents about a specific subject, so classified, in whatever language they are described, are found under the same number. For example:

648.525	—vacuum cleaner
	—Staubsauger
	—dammsugaron
	—aspirateur
	—aspirators di polvero
	—aspirador de polvo
	—Пылесос
—odkurzac	

It follows that a card index-system, classified according to the decimal system, is accessible to everybody, independently of the language of the entries.

A purpose for which the Universal Decimal Classification is essential is to bring about the needed co-operation of many bibliographers, and make the references they produce fit together into a comprehensive subject index to recorded information.

In general, standardization has in view the abolition of needless diversity, and is in this respect of particular value if exchangeability of references is required. Thus, if different services or institutions have to exchange classified data, standardization of classification secures that the self-same data do not have to be classified afresh.

If change of staff takes place, and the necessity arises for educating a new staff, previous experience with a standard classification makes it possible to work in the new staff rapidly. Control of the collection of classified data is also simplified in operation when the system is known in advance, and the various collections under control are classified by this same system.

A standardized classification is of advantage, not only for the mutual exchange of data, but also for making use of material which has been previously classified. Supposing that an outside bibliographical institution in the field of photography wishes to keep up to date, then it can cut out the bibliographical references from, e.g. "Photographic Abstracts" which bear the appropriate Universal Decimal Classification numbers, and insert the references in a card index, without having to carry out the work of classification itself, a task occupying a considerable time.

Other advantages of the Universal Decimal Classification arise directly from its universal character. When a specialist is drawing up a detailed classification for the arrangement of documents in his special field, the Universal Decimal Classification will be found to work smoothly. Furthermore, it is likely that, by its use, the specialist will be drawn into more proper relation with neighbouring fields than otherwise. In proportion, as particular specialized fields display more coherence and relation to one another, and that is charac-

teristic of the contemporary trend of science, so will the specialist have to pay more attention to allied fields. It is just these allied fields which so often cause deadlock in an "individual classification." What used to be collected under the heading "various" grew in an alarming fashion, and eventually carried more than the original logically extended systematic part of the "Individual classification." It is characteristic of the Universal Decimal Classification that headings labelled "various" are seldom necessary. In this voluminous classification, built up and kept up to date continually with the help of some hundreds of skilled professional workers, practically every object of human interest finds a place. In consequence, we find in practice that "deadlocks" do not obstruct an organization using the Universal Decimal Classification. It is exactly on this ground that great institutions, which have to arrange a considerable quantity of documentary material, have abandoned "Individual classification" in favour of the Universal Decimal Classification, although they may have no special interest in the exchange of data.

Of lesser advantage, it may be mentioned that Arabic numerals are easy to remember. For that reason, decimal symbols offer mnemonic advantages over symbols made up of combinations of letters and Arabic or Roman numerals.

GENERAL CLASSIFICATION HINTS

No specific directions for the application of the Universal Decimal Classification can be given. Classification is in itself an art, requiring knowledge not only of the classification but also, above all, of the matter to be classified.

Moreover, it is necessary always to keep in mind that the aim is not merely to specify the contents of a document, but to be able to produce it as quickly as possible when required. Thus the classifier should continually ask himself, what are the needs of those for whom he is doing the work, and what will, presently, have to be looked for and where.

In classifying we should avoid working from the title of a document, but should ascertain its actual contents. We should also avoid excessively detailed subdivision. All that matters is that the number of references bearing the same classification number shall not become too large.

On the other hand, we should not hesitate to bring a self-contained topic under more than one classification heading, if that topic happens to be considered from different aspects.

In case of doubt, the general rule is to select the number which comes first in the decimal sequence. Also, for preference, we should bring together studies on a self-contained subject, summed up from different viewpoints, under the decimal classification number coming first in sequence, when no other choice is obvious. For safety's sake, in doubtful cases, we may use two or more numbers. In preparing a card index of the entries, we should make as many cards as correspond to the total number of classification numbers used. The number, under which the card is to be inserted, should then be indicated in each case by underlining.

At first, frequent use will be made of the alphabetical index. More legitimately, this serves exclusively to indicate the various places in which an idea occurs, and in a given case, we should never omit to keep an eye on the systematic schedules to see whether the number found in the alphabetical index is justified systematically.

In the use of the auxiliary numbers, we should read the introductory remarks on pp. 108-9.

APPLICATION

The original Dewey scheme, as subsequently enlarged, has already been applied in about 19,000 American libraries. The complete international edition of the decimal classification, the Universal Decimal Classification, has in view primarily its application to the documentation field and to

the field of administration, although application to library cataloguing has also been provided for. As regards documentary application, this Classification has, in practice, clearly found acceptance, especially for bibliographies in technical and natural science. It is noteworthy that the three great technical bibliographical centres, viz. the Science Library in London, the Engineering Sciences Library in New York, and the Verein Deutscher Ingenieure in Berlin, have accepted the Universal Decimal Classification. The principal large electrical manufacturing firms in the world have all adopted the Universal Decimal Classification for one or more of their documentary departments. Further, the natural science card index system of the Concilium Biographicum is well known. Furthermore, the Universal

Decimal Classification is applied to administrative files particularly in Holland, in various private and professional institutions, and by some 700 local authorities. For its application to administration we should consult in particular the observations on the regrouping of decimal numbers according to special viewpoints in the introduction to the use of the auxiliary numbers and symbols (p. 110).

EXAMPLE OF SUBDIVISION

The example on the following page shows the subdivision of one of the groups, group 6, Applied Science, through section 621, Mechanical and electrical engineering, to the fifth decimal place.

Generalities 0 Bibliography Libraries, etc.	Philosophy 1 Ethics Psychology	2 Religion Theology	3 Social sciences Law	4 Philology Linguistics	5 Pure sciences	6 Applied sciences (Medicine, Technology)	60 General considerations	620 General questions Materials	621 0 General questions	.01 Mechanical engineering in general .03 Physical technology. Technical physics .08 Prime movers. Spring and weight motors
							61 Medicine	621 Mechanical and Electrical engineering	621.1 Steam engines Boilers Steam engineering	.11 Steam engines (land engines) in general .12 Ships' steam engines .13 Steam locomotives .14 Road locomotives. Steam tractors .15 Semi-portable steam engines .16 Stationary steam engines .17 Working of steam plants. Condensation. Water cooling. Explosions .18 Boilers, tubes, etc.
							62 Engineering sciences	622 Mining	621.2 Water power Hydraulic machines	.21 Waterwheels .24 Hydraulic turbines .25 Hydraulic pressure machinery. Pressure pumps, accumulators .26 Hydraulic presses .27 Hydraulic rams .28 Other applications of hydraulic energy
							63 Agriculture Forestry Stockbreeding Animal produce Hunting Fishing	623 Military engineering	621.3 Electrical engineering	.31 General electrical engineering .32 Electric lighting. Lamp bulb manufacture .33 Electric traction .34 Electric drives other than traction .35 Technical electrochemistry .36 Thermo-electricity and electrical heat generation .38 Various scientific apparatus. Discharge tubes .39 Telecommunication
							64 Domestic economy	624 Civil engineering sciences (General)	621.4 Internal combustion engines and other special motors	.41 Hot air engines .43 Internal combustion engines and explosion motors .44 Engines using vapour mixtures .47 Solar machines
							65 Commercial sciences Organization	625 Road and rail engineering	621.5 Pneumatic machines Refrigeration technique	.51 Compression of air and gases. Compressors .52 Rarefaction of air and gases. Air pumps. Vacuum pumps .53 Conduction and distribution of condensed and rarefied air and gases .54 Application of condensed and rarefied air. Air pressure motors. Wind motors. Pneumatic tools .56 Refrigeration technique in general. Refrigerators. Refrigerating materials .57 Refrigerating machines .58 Ice manufacture .59 Apparatus for production of intense cold and for liquefaction of gases. Containers. Cylinders for oxygen, hydrogen, etc.
							66 Chemical technology	626 Hydraulics Waterways	621.6 Ventilators and Pumps Pipes	.61 Blowing mechanisms in general. Bellows. Simple ventilators .63 Centrifugal ventilators. Exhausters .64 Means of transporting gases and fluids in general. Pipes .65 Pumps with reciprocating pistons. Membrane pumps .66 Pumps with rotary pistons .67 Centrifugal pumps. Screw pumps. Turbine pumps .68 Special pumps. Measuring pumps. Separator pumps .69 Apparatus for direct working of gas or steam. Pulsometers. Injectors. Ejectors.
							67 Various industries for manufacturing simple materials	627 Watercourses Harbours Marine works	621.7 Workshops Factories Individual processes	.71 Research departments. Drawing offices .72 Making of models. Pattern making .73 Forges. Heavy and light forges. Smithery .74 Foundries. Moulding. Casting .75 Tools and machinery manufacture .77 Manufacture of materials of special form .78 Heat treatment of metals. (Hardening, tempering, annealing) .79 Various workshops and ways of processing material
							68 Various industries for manufacturing complex objects	628 Sanitary engineering	621.8 Machine parts Means of conveyance on the spot	.81 Elementary machine parts. Machine-elements .82 Shafting. Axles. Axle boxes. Bearings. Journals. Couplings. Cranks. Eccentrics. Driving-rods .83 Toothed parts. Gearing. Camwheels. Racks. Ratchets. Frictional wheels and discs .85 Flexible transmissions. Driving belts. Chains. Ropes .86 Means of lifting and removal, other than cranes and lifts .87 Lifting mechanisms .88 Means of attachment .89 Lubrication. Lubricants
							69 Building industry	629 Transport engineering	621.9 Machine tools Methods of manufacture	.91 Planing machines. Slotting machines. Filing and milling machines. Files .92 Polishing and grinding machines. Grinders. Crushers. Riddles. Sorters. Mixers .93 Saws. Cutting machines .94 Lathes. Rolling mills. Drawing machines. Drawing of wire and tubes .95 Drilling machines. Drilling mechanisms .96 Mechanisms and machines for punching, blanking, striking, splitting, cleaving, stamping, stapling .97 Mechanisms and machines for beating, hammering, forging, pressing, shaping, moulding, etc. .98 Machines for bending, folding, flanging, straightening, rolling out, etc. .99 Screw-cutting. Manufacture of screws

OUTLINE OF THE MAIN DIVISIONS

0 GENERALITIES

- 00 Prolegomena. General fundamentals of knowledge and culture
- 01 Bibliography. Cataloguing
- 02 Libraries. Library economy
- 03 General encyclopaedias
- 04 Pamphlets, offprints, brochures and the like
- 05 Periodicals with general contents. Serial works. Reviews
- 06 Corporate bodies. Institutions. Societies. Congresses. Exhibitions. Museums
- 07 Newspapers. Journals. Journalism
- 08 Polygraphies. Collected works
- 09 Manuscripts. Rare and remarkable works. Curiosa

1 PHILOSOPHY. METAPHYSICS. PSYCHOLOGY. LOGIC. ETHICS

- 11 Metaphysics
- 13 Metaphysics of spirit life. Occultism
- 14 Philosophical systems. Metaphysico-ontological considerations and theories
- 15 Psychology
- 16 Logic. Theory of knowledge. Logical method
- 17 Ethics. Moral science

2 RELIGION. THEOLOGY

- 21 Natural theology
- 22 The Holy Bible. Holy Scripture
- 23 Dogmatic theology
- 24 The religious life. Practical theology
- 25 Pastoral theology
- 26 The Christian church
- 27 History of the Christian church
- 28 Christian churches, denominations and sects
- 29 The various religions. Comparative religion

3 SOCIAL SCIENCES. SOCIOLOGY. LAW. GOVERNMENT. EDUCATION

- 30 General sociology
- 31 Statistics
- 32 Politics
- 33 Political and social economy. Economics
- 34 Jurisprudence. Law. Legislation
- 35 Public administration. Government and organization, civil and military
- 36 Social welfare. Insurance
- 37 Education
- 38 Trade. Commerce. Communication and transport
- 39 Ethnography. Costumes. Customs. Folklore

4 PHILOLOGY. LANGUAGES

- 41 Philology and languages in general
- 42 Western languages in general. English
- 43 Germanic languages. German. Dutch, etc.
- 44 Romance languages in general. French
- 45 Italian. Roumanian, etc.
- 46 Spanish. Portuguese, etc.
- 47 Latin and Greek
- 48 Slavonic languages. Baltic languages
- 49 Various languages. Oriental languages

5 PURE SCIENCES

- 51 Mathematics
- 52 Astronomy. Geodesy
- 53 Physics
- 54 Chemistry. Crystallography. Mineralogy
- 55 Geology. Meteorology
- 56 Palaeontology
- 57 Biology. Anthropology
- 58 Botany
- 59 Zoology

6 APPLIED SCIENCES. MEDICINE. TECHNOLOGY

- 61 Medicine. Anatomy. Physiology. Pathology. Pharmacy
- 62 Engineering
- 63 Agriculture
- 64 Domestic economy
- 65 Commerce. Communications. Transport. Business organization. Printing. Publishing
- 66 Industrial chemistry. Chemical technology
- 67 Various industries and manufactures
- 68 Various industries, professions and crafts
- 69 Building industry. Building construction

7 FINE ARTS. APPLIED ARTS. ENTERTAINMENT. RECREATION. SPORT

- 71 Town and country planning. Garden and landscape architecture. Preservation
- 72 Architecture
- 73 Sculpture
- 74 Drawing. Decoration. Industrial art
- 75 Painting
- 76 Engraving. Etching
- 77 Photography
- 78 Music
- 79 Entertainment. Games. Sport

8 LITERATURE. BELLES LETTRES

- 80 Generalities. Rhetoric. Criticism
- 82 Literature of the Western countries in general. English literature
- 83 Germanic literature. German literature. Dutch literature
- 84 Romance literature. French literature
- 85 Italian literature. Roumanian literature
- 86 Spanish literature. Portuguese literature
- 87 Latin literature. Greek literature
- 88 Slavonic literature. Baltic literature
- 89 Various literatures. Oriental literature

9 GEOGRAPHY. BIOGRAPHY. HISTORY

- 91 Geography. Accounts of travels
- 92 Biography. Genealogy. Heraldry
- 93 History in general. Ancient history
- 94 Modern history. History of Europe
- 95 History of Asia
- 96 History of Africa
- 97 History of North America
- 98 History of South America
- 99 History of Oceania, of Australasia, of the Polar region

0 GENERALITIES

WORKS OF A GENERAL NATURE. WRITING. DOCUMENTATION. BIBLIOGRAPHY. LIBRARIES.
INSTITUTIONS. DOCUMENTS AND PUBLICATIONS IN GENERAL

00 Prolegomena. General fundamentals of knowledge and culture

001 THE SCIENCES AND KNOWLEDGE IN GENERAL. *See also* 168; 389; 681.2

- .1 General conceptions. Definition of science. Limits of knowledge, etc.
- .2 Relations between the individual sciences. *See also* 001.8; 025.4; 168
- .3 Value, significance of science
- .4 Scientific nomenclature. Terminology. *See also* 003.62
- .5 Scientific theories, hypotheses and systems. *See also* 16
- .6 Scientific laws. *See also* 113; 51
- .8 General methodology. *See also* 168
- .81 Technique of intellectual work
- .83 Intellectual collaboration
- .89 Organization of science and of scientific work in general
- .9 Spread of knowledge. Pseudo-sciences

002 DOCUMENTATION. Generalities concerning compilation, sorting and methodical arrangement of documents. *See also* 01; 651.5; 655; 659.2

- .6 Documentation centres

003 WRITING

- .01 Origin
- .03 Relationship to speech. Transliteration. Phonetic script
- .08 Special characteristics. Accents, diacritics, etc.
- .2 Kinds of writing in general
- .23 Script with letters
- .24 Braille
- .25 Morse. *See also* 652.8
- .26 Secret writing. *See also* 652.8
- .3 Particular kinds of script
- .32 Ideographic scripts
- .322 Egyptian hieroglyphics
- .323 Cuneiform script
- .325 Hittite picture writing
- .33 Oriental alphabetic scripts
- .331 Origin of the alphabet
- .332 Semitic scripts
- .4 Hebrew and Canaanite scripts
- .5 Arabic scripts
- .336 Indian scripts
- .34 Occidental scripts
- .341 Greek
- .344 Latin
- .2 Kinds of script
- .29 Modern scripts
- .291 Handwriting
- .292 Type. *See also* 655
- .293 Special type, e.g. for job-work, advertisements, posters, etc.
- .294 Typewriter type
- .345 Runes
- .349 Slavonic scripts

- 003.35 Numerical notations. Greek, Roman, Arabic numerals
- .5 Writing materials
- .6 Other kinds of graphic representation of thought
- .62 Signs, notations, symbols. *Subdivide by sign of Relation* ; e.g. 003.62:52 Astronomical symbols
- .63 Diagrams

007 ACTIVITY AND ORGANIZATION IN GENERAL. Human work. *See also* 159.95; 65.01; 651; 658.5

008 CIVILIZATION. CULTURE. PROGRESS

009 THE HUMANITIES. THE "ARTS" IN GENERAL; e.g. 016:009 Bibliography of the humanities. *See also* 167/168

01 Bibliography. Book Catalogues

See also 002; 02; 025.3/.4; 09; 930.25.
Only works on bibliographical science and technique are classified under 01, subdivided as necessary by :011/019

011/016 BIBLIOGRAPHIES

Music catalogues are classified under 781.973; museum catalogues under 069.538

- 011 Universal and general bibliographies
- 012 Bibliographies concerning one specific author, one specific institution or concerning specific separate works
- 013 Bibliographies of groups of authors of one country, or of a specific class. *Subdivide by Common Subdivisions of Place, Language, Date or Relation*
- 014 Bibliographies of works with peculiar characteristics
- .1 Bibliographies of anonymous or pseudonymous works
- .3 Lists of abstracts from periodicals or collections; e.g. 014.3:07 Lists of newspaper articles
- .5 Indexes of separate works, e.g. 014.5 Homer Iliad. Index of Homer's Iliad
- 015 Bibliographies according to place or country of publication of the works. National bibliographies. *See also* 013
- 016 Bibliographies concerning special subjects. Specialist bibliographies. *Subdivide by sign of Relation* :

017/019 CATALOGUES

- General collections only. *See also* 016
- 017 Library and book-trade catalogues in general. Systematic catalogues
- .091 Location catalogues

- 017.1 Catalogues of public libraries
- .11 Central catalogues, or catalogues common to several libraries
- .2 Catalogues of private libraries
- .3 Catalogues of book sales
- .4 Commercial catalogues of publishers, printers or booksellers
- .42 Catalogues of current stock
- .43 Catalogues of second-hand books
- 018 Alphabetical catalogues by author, title and subject. *See also* 012
 - .1 Of public libraries
 - .2 Of private libraries
 - .3 Of public book sales
 - .4 Book trade catalogues
- 019 Catalogues in dictionary form. Union catalogues. Other bibliographies and catalogues
 - .1 Of public libraries
 - .2 Of private libraries
 - .3 Of public book sales
 - .4 Book trade catalogues
 - .9 Special bibliographies and catalogues. Of a book review character

02 Libraries. Library Economy

- 021 TASK, UTILITY, CREATION, PROPAGANDA, DEVELOPMENT, FIELD AND MEANS OF EXISTENCE OF LIBRARIES
 - .8 Relations with public authorities. Legislation
- 022 LIBRARY BUILDINGS. *See also* 727.8
 - .1 Site. *See also* 711.5
 - .2 Building materials used. Protection from fire, etc.
 - .3 Planning in general
 - .4 Arrangement of storage and shelving
 - .5 Reading rooms. Rooms for study
 - .6 Premises for administration, for exhibitions, etc. Cloakrooms, garages, etc.
 - .7 Lighting. *See also* 628.9
 - .8 Heating and ventilation. *See also* 697
 - .9 Various auxiliary fixtures and fittings
- 023 MANAGEMENT. STAFF
- 024 USE OF THE LIBRARY. DIRECTIONS
 - .01 Regulations. Hours of opening. Conditions for borrowing
 - .6 Loan of books
 - .68 Loan between libraries
- 025 LIBRARY ADMINISTRATION
 - .1 Executive. General management
 - .2 Accessions
 - .3 Catalogue technique. *See also* 017/019
 - .31 Rules
 - .34 Various kinds of catalogue
 - .343 Systematic cataloguing
 - .4 Documentary classification
 - .45 The Universal Decimal Classification (U.D.C.)
 - .5 References. Information service
 - .6 Circulation, loan of works
 - .7 Binding and repair of books. *See also* 686.1
 - .8 Treatment of and placing of books. Shelving. *See also* 022.2
 - .85 Care of books. Protection against dust, gas, mice, etc.
 - .9 Upkeep of premises. Cleaning, etc.

026 TECHNICAL LIBRARIES. SPECIAL LIBRARIES. *Subdivide by sign of Relation :*

027 GENERAL LIBRARIES

- .081 Reference libraries
- .082 Lending libraries in the general sense
- .1 Private libraries
- .2 Libraries of societies, academics, clubs, institutions, etc.
- .3 Public paying libraries. Subscription libraries
- .4 Free public libraries
- .5 Government, municipal, etc., libraries
- .6 Libraries for specific groups of readers. Libraries attached to prisons, workshops, etc.
- .7 Libraries for secondary, higher and specialist educational establishments. University libraries
- .8 Libraries for elementary schools
- .9 Free access reading and newspaper rooms
- 028 READING. ADVICE FOR READERS. Bibliographical psychology. *See also* 374.2

03 Encyclopaedias. Dictionaries. Reference Books

- 030.1 General universal encyclopaedias
- .8 Dictionaries, vocabularies, etc.
This section for library use only. See also 413

04 Mixed Collections of Essays. Pamphlets. Brochures. Offprints, etc.

Subdivide like (04) *See also* 06; 08

05 Periodicals. Reviews

- 050 *Subdivide like* 070
- 058 Yearbooks. Directories
 - .7 Address books. Lists of names. Professional lists. Directories. *See also* (058.7)
- 059 Almanacs. Kalendars. *See also* 264-1; 529.3/.5

06 Institutions. Associations. Congresses, etc.

- 06.0 *Special Auxiliary Numbers for the organization of associations and other institutions. These Special Auxiliary Subdivisions are applicable to 061 but not to 069*
 - .01 General character. Aim, rules, legal personality, etc.
 - .02 Members. Their duties and rights
 - .021 General questions. Roll of members
 - .03 Funds. Property
 - .04 The administrative body: Directorate. Committees. Board, etc.
 - .05 Activity of the corporate body in general
 - .053 Meetings
 - .055 Publications relating to work
 - .5 Annual reports

- 06.06 Exhibitions, competitions. Examinations. *See also* 061.4
- .07 Various activities. Processions, displays, excursions, dinners, etc.
- .08 Internal administration. *Subdivide like* 35.08
- .09 Other questions. Jubilees, etc.

061 Types of Institution ✓

- 061.1 Official institutions. Academies
- .2 Semi-official and private institutions. Societies. Public utility companies
- .3 Congresses. Conferences. Conventions. Assemblies, etc.
- .4 Exhibitions
- .41 Universal international exhibitions
- .49 Permanent exhibitions. *See also* 069
- .5 Business houses, firms, concerns
- .6 Research institutions
- .66 Information services
- .7 Festivities, solemn occasions, etc. Charity bazaars, race meetings, etc.

069 Museums. Museography. ✓ Museology

- 069.01 Theory. Museology properly so-called
- .1 Aim, utility. Educative character. Conducted visits. Lectures
- .2 Buildings and services in general. *See also* 727.6/.7
- .3 Furniture. Equipment
- .4 Methods of establishing collections. Preparation. Preservation. Cleaning. Repair
- .5 Collections. Objects exhibited. Explanatory matter
- .53 Technique of exhibition
- .538 Museum catalogues
- .6 Administration
- .7 Publications
- .8 Research

07 Newspapers. Journalism

- 070.1 Utility. Theories. Relations to other professions. Standards. Influence. Censorship. Government relations, etc.
- .2 Ownership and control
- .3 Business management. *Subdivide by* :331 and :65
- .4 Editorial management

08 Polygraphies. Collected works

Subdivide like (08)

- 081 Collected works of one individual author
- 082 Collected works of several authors. *Subdivide by Language and Date*

- 082.1 Sets of works; e.g. 082.1 Home Univ. "Home University Library"
- 087 Publications emanating from specific categories of authors and intended for specific categories of readers
- .2 Publications intended for specific categories of readers. *Subdivide by sign of Relation :*
- .3 Official and semi-official publications in the course of events of general interest. Blue books, etc. *See also* 061.1.055
- .5 Publications for children. *See also* (024.7); (075); 372.4; 398.2
- .61 Popular literature
- .62 Colportage literature
- 088 Miscellanies. *See also* 04 and 06

09 Manuscripts. Rare and Remarkable Works ✓

- 090.1 Bibliophily. Bibliopoly
- 091 MANUSCRIPTS
Subdivide by Language and Subject Matter
- .0 Technical questions
- .1 Form of manuscript. Tablets, rolls, codices
- .3 Various kinds. Decorated, miniature, palimpsest
- .6 Printed works with manuscript notes in the handwriting of celebrated writers
- 092 XYLOGRAPHIC BOOKS. Prints from blocks.
Subdivide by Date
- 093 INCUNABULA. EDITIONS EARLIER THAN 1500. *Subdivide by Date*
- 094 REMARKABLE (PRECIOUS, CURIOUS OR RARE) EDITIONS. Editions de luxe, first editions, etc.
- 095 BOOKS REMARKABLE FOR THEIR BINDING
- 096 BOOKS REMARKABLE FOR THEIR ILLUSTRATIONS OR FOR THE MATERIALS USED. *See also* 087.5; 7.04
- 097 EX LIBRIS. Marks of ownership or of origin, such as monograms, seals, etc.
- 098 VARIOUS WORKS REMARKABLE FOR THE NATURE OF THEIR CONTENT. Prohibited works. Enigmatic works, etc.
- 099 OTHER GROUPS OF BOOKS DISTINGUISHED BY OTHER SPECIAL CHARACTERISTICS (PRECIOSA, CURIOSA)

1 PHILOSOPHY

METAPHYSICS. PSYCHOLOGY. LOGIC. ETHICS. *See also* 21; 301; 34.01; 7.01; 93.01

- 1(091) **General history of Philosophy**
 1(A/Z) **Individual philosophers**
 101 **Nature, scope, etc., of philosophy**

11 Metaphysics. *See also* 21

- 111 **GENERAL METAPHYSICS. ONTOLOGY**
 113/119 **COSMOLOGY. PHILOSOPHY OF NATURE.**
See also 14
 113 **General laws of nature.** *See also* 141.152/.153;
 291.2
 114 **Space.** *See also* 159.937.5
 115 **Time.** *See also* 159.937.5
 .4 **The notion of space-time.** *See also* 531.11
 116 **Motion.** *See also* 159.937.5
 117 **Matter.** *See also* 541
 118 **Force. Energy.** *See also* 531.6; 536.7
 119 **Quantity. Number**
 122/129 **SPECIAL METAPHYSICS**
 122 **Causality**
 123 **Freedom and necessity.** *See also* 159.947;
 234.9
 124 **Teleology. Meaning, purpose, value, etc.** *See*
also 001.8; 577.6; 612.012
 125 **The infinite. The finite**
 128 **The soul. Life and death**
 129 **The origin and destiny of the individual soul.**
Incarnation. Reincarnation. *See also* 218;
 236
 13 **PHILOSOPHY OF MIND. METAPHYSICS**
OF SPIRIT LIFE. *See also* 159.9; 57; 576;
 612.8
 130.1 **General concepts and laws**
 .2 **Philosophy of civilization. Systems. Cycles.**
Subdivide by sign of Relation : and especially
with 17; 2; 3; 34; 4; 6; 7; 93
 .3 **Metaphysics of spirit life. Individual, objective,**
collective spirit
 133 **Occultism.** *See also* 125; 141.33; 366; 398;
 612.8
 .1 **Concept and nature of the occult**
 .11 **Cosmic principles and hierarchies.** *See*
also 133.9; 235; 398.4
 .14 **Supersensual beings**
 .18 **Esoteric chronicles**
 .2 **Supersensual experience. The adept. Initia-**
tion. Spiritual training. *See also* 159.913;
 159.947; 398; 616.89
 .3 **Occult perception. Clairvoyance. Clair-**
audience. Augury. *See also* 159.961
 .4 **Magic. Witchcraft. Theurgy.** *See also*
 159.961

- KINDS OF SYSTEM**
 141.1 **Systems relating to the number and quality of the**
principles
 .111 **Monism**
 .112 **Dualism**
 .113 **Pluralism**
 .12 **Ontological materialism**
 .13 **Metaphysical idealism**
 .131 **Platonism. Neo-Platonism**
 .132 **Universalism.** *See also* 165.63
 .141 **Animism. Hylozoism. Panpsychism**
 .142 **Voluntarism**
 .143 **Alogism**
 .144 **Monadism. Personalism**
 .145 **Organicism**
 .151 **Conditionalism**
 .152 **Mechanicism**
 .153 **Dynamism**
 .154 **Energeticism**
 .155 **Evolutionism**
 .156 **Mobilism**
 .157 **Finalism**
 141.2 **Systems relating to judgment as to the value of**
the world
 .21 **Optimism.** *See also* 231.8
 .22 **Pessimism**
 .23 **Meliorism**
 141.3 **Special and mixed forms**
 .31 **Scholasticism**
 .319 **Neo-scholasticism, etc.**
 .33 **Philosophical mysticism**
 .332 **Theosophy**
 .333 **Anthroposophy**
 .336 **Sufism**
 .38 **Eclecticism. Syncretism**
 141.4 **Systems in relation to the problem of God.**
See also 211
 .41 **Theism**
 .411 **Polytheism**
 .412 **Monotheism**
 .42 **Deism**
 .43 **Pantheism. Acosmism**
 .44 **Panentheism**
 .45 **Atheism**
 141.5 **Systems relating to the point of view concerning**
the soul and free-will. *See also* 159.9.01;
 159.947; 171; 237.2

159.9 Psychology

See also 165; 343.95; 572.5; 612.8
 616-05; 616.8

- 159.92 **MENTAL DEVELOPMENT AND CAPACITY. COMPARATIVE PSYCHOLOGY**
- .922 Mental characteristics
 - .1 Sex psychology
 - .2 As influenced by environment
 - .3 As influenced by heredity
 - .4 Race psychology
 - .6 As influenced by age
 - .7 Child psychology. Pedology
 - .923 Typology. Individual psychology. Idiosyncrasies. Temperaments. *See also* 159.97
 - .924 Genius
 - .925 Physiognomy
 - .5 Phrenology
 - .6 Graphology
 - .7 Chiromnomy. *See also* 133.6
 - .928 Different kinds of aptitude
 - .22 General intelligence
 - .23 Special capacity or aptitude
 - .929 Biopsychology. Plant and animal behaviour. Comparative psychology. *See also* 591.51

- 159.93 **SENSATION. SENSE PERCEPTION**
- .930 Theory
 - .931 Vision
 - .932 Hearing
 - .933 Smell
 - .934 Taste
 - .935 Touch. Feeling
 - .936 Muscular, articular and organic senses. Sense of equilibrium. *See also* 159.9.937.5
 - .937.5 Special classes of perception. Of space, extent. Of time, rhythm. Of movement. *See also* 114/116
 - .7 Synesthesia. Colour audition
 - .938 Psychophysics
 - .21 Laws
 - .22 Principal formulae
 - .25 General classes of measurements. Stimulus threshold. Difference threshold
 - .3 Psychometry. Psychochronometry. Psychophysiological reaction time

- 159.94 **EXECUTIVE FUNCTIONS**
- .942 Emotions. Sensibility
 - .943 Conation and movement. Motor functions. Action, drives, instincts
 - .944 Work and fatigue
 - .946 Special motor functions. Locomotion. Vocal expression. Graphic expression
 - .947 Volition. Will. Training of the will

- 159.95 **HIGHER MENTAL PROCESSES**
- .952.1 Conditions of selection
 - .2 Varieties of attention
 - .3 Physical reactions
 - .4 Clearness and strength of attention
 - .5 Scope and duration
 - .6 Acquired inattention
 - .953 Memory and learning. Mnemonic technique
 - .954 Imagination. Creative power. Imaginal apprehension
 - .955 Thinking. Conception. Judgment
 - .956 Intuition

- 159.96 **SPECIAL MENTAL CONDITIONS AND PSYCHIC PHENOMENA**
- .961 Psychical research. Parapsychology. *See also* 133

- 159.961.2 Hallucinations. Illusions. Apparitions. *See also* 133.2
- .6 Telepathy. Clairvoyance. Clairaudience.
- .7 Spiritualism. *See also* 133.3
- .962 Hypnotism. Suggestion. Auto-suggestion
- .963 Sleep and wakefulness. Dreams. Somnambulism. *See also* 612.82
- .2 Sleep. Wakefulness
- .3 Dreams. Visions. Dream interpretation
- .5 Somnambulism
- .6 Sleep talking
- .964 Depth psychology. Psychology of the unconscious
- .2 Psychoanalysis
- .3 Other types of depth psychology. Prince, Rivers, McDougall, etc.

159.97 **ABNORMAL PSYCHOLOGY**

159.98 **PSYCHOTECHNIQUE IN GENERAL**

16 **Logic. Theory of Knowledge. Logical Method**

See also 001.8; *Optionally it is permissible to combine 16 by means of the sign of Relation :* with 161.1; 161.2; 164; 165; 166; 168

- 161 **CONCEPT. JUDGMENT**
 - .1 Concept
 - .2 Judgment
- 162 **DEDUCTION. INDUCTION.** *See also* 166
- 163 **EVIDENCE. FAITH. MORAL CERTAINTY, ETC. ARGUMENT FROM AUTHORITY.** *See also* 165; 234.2
- 164 **LOGISTICS. LOGICAL CALCULATION**
- 165 **EPISTEMOLOGY. THEORY OF KNOWLEDGE. CRITERIOLOGY**
- 165.6/.8 **LOGICAL STANDPOINTS AND TRENDS**
 - .61 Irrationalism
 - .62 Phenomenology
 - .63 Rationalism. Intellectualism. *See also* 141.132
 - .64 Empiricism
 - .65 Criticism
 - .71 Dogmatism. Absolutism
 - .72 Scepticism
 - .73 Positivism. Agnosticism
 - .74 Pragmatism. Humanism. Philosophy of life. Biologism
 - .81 Subjectivism
 - .82 Realism
- 166 **REASONING. SYLLOGISM.** *See also* 159.955; 167
- 167 **SCIENTIFIC INQUIRY. HYPOTHESES. POSTULATES**
- 168 **SCIENTIFIC SYSTEMATIZATION.** *See also* 001.8; 025.45; 162; 167
 - .1 Definition
 - .2 Division. Classification. *See also* 025.4
 - .3 Demonstration

17 Ethics. Morality

Combine as necessary by sign of Relation : with 2 and 14. See also 34; 343; 39

- 171 **GENERAL ETHICS.** Moral conscience. Individual morality. Man's duty to mankind. *See also 159.947; 234.9; 347.44*
- 172 **SOCIAL ETHICS. SOCIAL MORALITY.** *See also 340.12*
 - .1 The individual and the State. Civic ethics. Patriotism. *See also 321; 342.2/.3*
 - .2 Duty of authorities and of public servants. *See also 351.9*
 - .3 Religion and the State. Liberty of conscience. *See also 261; 272; 322; 343.4; 348.7*
 - .4 International ethics. Peace and war. Pacifism. Internationalism. *See also 341*
- 173 **FAMILY ETHICS. DOMESTIC MORALS.** *See also 343.55; 347.62; 392.3*
- 174 **PROFESSIONAL ETHICS. BUSINESS MORALITY**
 - .8 Relations between employer and employed
- 175 **ETHICS AND RECREATION.** *See also 79*
- 176 **SEXUAL ETHICS.** *See also 173; 343.5*
 - .5 Prostitution. *See also 258; 351.76; 362.86*
 - .6 Adultery
 - .7 Ethics and art
 - .8 Ethics and literature. Pornography

- 177 **ETHICS AND SOCIAL INTERCOURSE.** Obligations to people in general. Courtesy. Probity, etc.
- 178 **MORALITY AND TEMPERANCE.** *See also 159.97; 331.84; 343.57; 613.3; 613.8; 616.8; 663*
 - .1 Alcoholism. Dipsomania
 - .2 Total abstinence. Temperance
 - .7 Addiction to tobacco
 - .8 Addiction to drugs. Various narcotics (Opium, cocaine, etc.)
- 179 **VARIOUS ETHICAL QUESTIONS**
 - .1 Morals and the newspapers. Ethics of the Press. *See also 070.1*
 - .2 Cruelty to children. *See also 173; 331.3; 362.7*
 - .3 Cruelty to animals. Work on behalf of animals. *See also 343.58; 351.765*
 - .4 Vivisection. *See also 612.012*
 - .5 Swearing. Oath
 - .6 Heroism. Bravery. Cowardice
 - .7 Respect for human life. Suicide. Duel. Murder. Legitimate self-defence. *See also 343.22; 343.61; 394.8*
 - .8 Human faults and failings. Pride. Vanity. Avarice. Jealousy. ~~M~~andacity, etc.
 - .9 Human virtues and good qualities. Modesty. Generosity. Orderliness. Fidelity, etc. *See also 241.5; 248.14*
- 18 **AESTHETICS.** *See also 7.01, 8.01*

2 RELIGION. THEOLOGY

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- .914 Women: alcoholics, insane, prostitutes, etc.
- .915 Juvenile
- .916 Military
- .917 Political. Anarchists. *See also* 343.341
- .918 Other classes and categories
- .1 Influence of occupation. *Subdivide by sign of Relation:*
- .2 Delinquent's speciality in crime. *Subdivide by sign of Relation:*
- .919 Monographs on delinquents. Celebrated criminal trials and proceedings. *See also* 340.96; 347.965; 92(A/Z)
- .92 Environmental influences, place, season, etc. *See also* 343.97(.)
- .93 Anatomy of delinquents. Physical appearance
- .94 Physiology and biology of delinquents
- .941 Heredity. Atavism
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- .97 Criminal sociology. Comparative criminality. Social environment, etc. *See also* 31; 343
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- .1 Military penal law
- Subdivide as necessary by means of sign of Relation : and the subdivisions of 343.22/.29*

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35 Public Administration. Administrative Law

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.469	Air operations	.25	Special services. Intelligence
.47	Military geography	.3	Administrative corps and services
.48	Military history, including combined operations. <i>Military history treated purely from the military standpoint. Wars as part of history in general are classed at 93/99</i>	.32	Commissariat. "R.A.S.C."
		.33	Medical
.486	Corps and regimental histories	.35	Legal. Police
.488	Studies of possible campaigns	.36	Education. Chaplains
.489	Histories of air operations	.37	Bases. Lines of communication services
.49	Naval history		
355.5	Military training. Exercises. Drill	357	Cavalry. Mounted troops
.52	Army exercises. Manœuvres	.1	Cavalry
.53	Field exercises. Tactical exercises	.2	Remount services
.54	Training of the various arms	.3	Transport services. "Train"
.541	Infantry. Small arms	.5	Cyclists. Despatch riders
.542	Cavalry. Armoured corps. Cyclists		
.543	Artillery	358	Artillery. Engineers. Technical services. Air forces
.544	Engineers. Field works	.1	Artillery
.55	Formation of specialist cadres in wider branches and units	.111	Horse. Field
.58	Civil defence organization and instruction. A.R.P.	.113	Coast. Garrison
		.114	Mountain
355.6	Army administration	.116	Anti-aircraft. Anti-tank
.64	Pay. Allowances. Pensions	.118	Self-propelled guns
.65	Feeding. Messing	.119	Tanks. Armoured cars
.66	Clothing. Equipment	.2	Engineers. Signals
.67	Quarters	.236	Signals
.69	Military transport. Transport of supplies	.3	Services connected with the construction of war materials, fortifications and works, camouflage
355.7	Military establishments. See also 358.2/.3; 623.6; 725.18	358.4	Air forces. Air corps
.71	Barracks, etc.	.41	Organization
.72	Medical establishments. Hospitals, etc.	.42	Formations: reconnaissance, fighter, bomber, etc.
.73	Artillery establishments. Arsenal. Ordnance factories	.43	Personnel
.74	Engineer establishments		
.75	Supply establishments. (Provisions and forage, Clothing, etc.)	359	The naval service. Naval personnel
.76	Air force establishments. Aerodromes, etc.	.1	Crews. Port and dockyard personnel. Reserves
355.8	Supply of equipment, clothing, vehicles. See also 623	.2	Specialists. Seamen, gunners, engineers, etc.
		.3	Marines. Coastguards, etc.
356/359	VARIOUS BRANCHES OF THE FORCES. PERSONNEL AND ORGANIZATION	.38	Naval air service. Fleet air arm
356	Infantry. Administrative corps, etc.	.4	Technical services
.1	Infantry	.5	Administrative services
		.6	Medical services
		.7	Legal services. Police, etc.
		.8	Miscellaneous personnel
		.81	Chaplains

36 Social Welfare Work and Relief. Insurance

361	SOCIAL RELIEF IN GENERAL. PUBLIC ASSISTANCE. See also 179.2; 331; 339.1; 347.921; 351.84; 374	362	SOCIAL WELFARE ESTABLISHMENTS. See also 351.84
.1	Medical relief in general. <i>See also 362.1</i>	.1	Medical attention. <i>See also 361.1</i>
.2	Social relief according to centre where exercised, etc.	.11	Hospitals. Infirmarys
.21	Town	.12	Clinics, dispensaries, etc. <i>See also 613/614</i>
.22	Country	.13	Sanatoria and hydropathic establishments
.7	Private relief. Philanthropy in general. Charity fêtes. Collections, etc.	.14	Sickness relief. Home attention
.8	Organization of relief. Charitable societies, institutions, councils. <i>Subdivide like 06.01/.05</i>	.15	Maternity welfare
.9	Assistance in certain exceptional cases: earthquake, flood, famine, war, fire, etc.	.16	After-care
.98	Technical relief service	.17	Family welfare. <i>See also 331.226</i>
		.18	Assistance in case of accidents
		.191	Assistance to wounded in wartime. Red Cross
		.193	Protection against illness and epidemics. Venereal peril. Fight against cancer
		.2	Care of the insane

- 362.3 Welfare of feeble-minded, imbeciles, backward children
.4 Welfare of physically handicapped
.41 Blind. *See* 371.9
.42 Deaf. Deaf and dumb. *See* 371.9
.5 Welfare of destitute. Foster-care of the poor. *See also* 331.6; 339.1
.533 Support at specific times of year. Winter assistance
.6 Welfare of the aged, the infirm
.7 Child welfare
.71 Infant welfare. *See also* 362.15
.72 Illegitimate children. Foundling homes
.73 Welfare of orphans
.74 Care, education and protection of delinquent children. *See also* 179.2; 343.88
.75 Foster-child system
.76 Social relief in schools. *See also* 371
.78 Care of sick children. Holiday settlements, etc.
.8 Welfare of youth. Welfare of women
.86 Defence, protection and reclamation of young girls and women
.9 Other social works, services and institutions
.92 Welfare of foreigners, refugees, etc.
.93 Welfare of the forces, etc.
.94 Welfare of the middle-classes. Assistance for newly poor, victims of economic crises
.942 Newly poor
.96 Provision for funerals. Interment funds. *See also* 334.8; 362.6
.97 Social work on behalf of the unemployed. *See also* 331.6
- 63/367 **MOVEMENTS FOR SOCIAL BETTERMENT. SOCIETIES OF HUMANITARIAN CHARACTER**
The Special Auxiliary Subdivisions enumerated under 06 are applicable throughout 363/367
- 63 Humanitarian movements of a more or less political character. *See also* 366
64 Movements for the betterment of outcasts and declassés. Moral and social rehabilitation
65 Movements on behalf of persons under punishment and prisoners
66 Humanitarian institutions of an esoteric character. Secret societies
.1 Freemasonry
.3 Oddfellows, etc.
.4 Rosicrucian movement. Templars, etc.
.5 Secret societies of a criminal tendency
- 67 **Institutions for advancement of social intercourse**
.2 Clubs
.3 Rotary clubs
- 58 **INSURANCE**
58.0 *Special Auxiliary Numbers*
.01 Theory. Scientific bases. *See also* 334.7; 519
.02 General insurance methods. Contracts. Policies. Provision of loss
.03 Types of organization: public, private, mixed, etc.
.04 Voluntary or compulsory insurance
.041 Voluntary
.042 Compulsory
.1 Loss insurance in general. Insurance of things in general
.10 Fire insurance in general. *See also* 614.84
- 368.11 Cash payment insurance
.111 Property. Real estate
.112 Chattels
.12 Various insurances in connection with buildings
.14 Limitation of fire insurance to certain causes or effects
.15 Insurance of mortgage debt against damage by fire to property mortgaged
.16 Insurance against damage by natural agents (excluding fire)
.18 Personal and impersonal acts
.182 Theft
.186 Breakage of objects or materials. Glass
.187 Breakages and faults in machinery and apparatus. Boiler explosion
- .2 **Transport insurance**
.21 Land transport
.22 Inland navigation transport insurance
.23 Maritime transport insurance
.24 Air transport insurance
.26 Postal transport insurance
- .3 **Capital insurances in general. Personal insurances**
.30 Life insurance in general
.31/.37 Various questions concerning life insurance
.38 Various insurances
.381 Accident
.382 Sickness
.383 Disability
.386 Operation
- .4 **Social insurance. Workmen's insurance**
.41 Insurance against accidents
.42 Social health insurance. Insurance against occupational diseases. *See also* 331.82
.43 Old age. Infirmary. *See also* 362.6
.44 Unemployment. *See also* 331.6
.45 Marriage and maternity. *See also* 312.1
.46 Widows and orphans
- .5 **Agricultural insurance**
.51 Weather risks (hail, etc.). Plant diseases
.52 Cattle
.54 Harvest
.55 Forests
- .8 **Various insurances**
.81 Various financial losses
.811 Credit. Debt recovery
.813 Rent
.86 Legal liability
.87 Business losses
- 369 **SOCIAL GROUPS AND ORGANIZATIONS FOR THE PROMOTION OF SOCIAL AND NATIONAL SPIRIT**
.1 Patriotic and similar institutions and organizations
.18 Ex-service men's institutions
.2 Racial and national institutions (without political aim)
.4 Youth movement in general. *See also* 267.3/.6
.41 General questions. Mixed organizations
.42 Boys' movements
.43 Training movement for development and education of group units
.431 International. Boy Scouts
.432 National
.44 Youths

369.46 Girls' movements
 .47 Training movement for encouragement and
 education in groups

369.471 International. Girl Guides
 .472 National
 .48 Older girls

37 Education

37.0 *Special Auxiliary Numbers*
 .01 Theory and philosophy of education
 .015 Educational psychology in general
 .018 Basic forms: school, home, etc.
 .3 Boarding schools

371 **TEACHING ORGANIZATION. EDUCATIONAL SYSTEMS**

371.0 *Special Auxiliary Numbers*
 .03 Cultivation of the personality: cultural, social,
 civic, creative, etc.
 .04 Education of specific categories
 .041 Boys
 .042 Girls
 .043 Co-education
 .048 Help: vocational guidance, etc.

371.1 Management. Teaching personnel
 .12 Instructors. Teachers
 .126 Training of teachers
 .2 School organization
 .21 Pupil and teacher. The school
 .212 Admission. Promotion
 .214 School programmes
 .22 Fees
 .23 Holidays. Terms
 .26 Review of progress
 .27 Examinations
 .29 Certificates. Diplomas
 .3 Methods of instruction
 .32 By use of books
 .33 Oral method
 .4 Educational systems
 .46 Froebel
 .481 Montessori
 .482 Dalton
 .5 School discipline. Prizes
 .6 School buildings. Apparatus
 .7 School hygiene. Physical training, games.
 Mental hygiene
 .8 School life. Customs. Honours, uniform, etc.
 .9 Education of special categories of pupils: lame,
 blind, deaf and dumb, etc.

372 **PRE-SCHOOL AND ELEMENTARY EDUCATION. See also 268; 362.76; 649**

372.2 Kinds of elementary education
 .21 Pre-school. Nursery schools. Kindergarten
 .22 Primary schools. Junior schools
 .221 Primary education properly so-called
 .222 Intermediate primary education
 .223 Higher primary education: 9- to 10-year-
 olds. *See also 373.4*
 .3 Beginners. Observation studies
 .4 Reading. Spelling. Reading books
 .5 Rudiments of writing and drawing. Simple
 hand work
 .6 Elements of grammar. Language lessons
 .7 Elementary arithmetic
 .8 Various elementary branches of knowledge.
 Good citizenship, etc.

373 **INTERMEDIATE OR SECONDARY EDUCATION. Education of pupils up to 18 years
 of age**

373.4 Transitional and preparatory schools
 .5 Various kinds of secondary school

373.51 Predominantly classical type. Grammar schools
 .52 Predominantly scientific type. Technical
 secondary schools
 .53 Mixed types. Modern schools. Central, or
 senior, schools
 .6 Commercial and technical training. Polytechnics
 .61 Commercial education, including evening
 schools
 .62 General technical instruction
 .621 General trade schools
 .622 General technical training schools
 .623 Technical evening schools
 .63 Specialized technical and industrial schools
 .64 Girls' vocational training
 .642 Domestic schools
 .68 Agricultural education
 .69 Re-education (e.g. disabled). *See also*
 331.86.066

.7 Art schools
 8 Teachers' training schools

374 **PERSONAL EDUCATION. CONTINUATION SYSTEMS. See also 021; 331.85;
 37.018**

374.1 Self-tuition. Advice thereon
 .2 Study groups. Travel institutions. Book
 clubs, etc.
 .4 Education by correspondence
 .5 Courses. Radio courses
 .6 Continuation courses
 .64 University extension, etc.
 .7 People's universities
 .8 Complementary schools: Holiday courses, etc.
 .9 Various institutions
 .94 For the illiterate
 .95 For immigrants
 .96 For unemployed

378 **HIGHER EDUCATION. Colleges. Academies.
 Universities**

378.1 General organization. *The common subdivisions
 by .08 enumerated under 35.08 are applicable*
 .12 Professorial body. Chairs
 .18 Student life
 .2 Degrees. Examinations
 .3 Endowments. Bursaries, etc. *See also 371.22;
 371.53*
 .4 The Universities
 .9 Specialist establishments for higher education.
Subdivide like 0/9; e.g.
 .938 Trade colleges
 .962 Technical colleges
 .963 Agricultural colleges
 .97 Art academies
 .978 Music academies

379 **RELATION BETWEEN SCHOOL AND THE
 PUBLIC AUTHORITIES**

379.1 Official public education
 .12 Subsidies
 .15 Inspection
 .2 Struggle against illiteracy
 .3 School politics. Differences of minorities, etc.
 .7 Private education
 .74 Private schools of a special social character
 .77 Denominational education

38 Trade. Transport. Communications

Only works which treat the questions from economic, political or social points of view are classified here. See also 65

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| <p>380 GENERALITIES</p> <p>380.1 Theory</p> <p> .11 Supply and demand</p> <p> .12 Supplies and markets</p> <p> .13 Market analysis</p> <p> .15 Chambers of Commerce</p> <p> .16 Control of trade. Trade registers</p> <p> .8 Tourist traffic</p> <p>381 INLAND TRADE. <i>See also 347.7; 351; 65</i></p> <p>381.1 Places where trade is carried on. <i>See also</i>
 332.61; 347.731</p> <p> .11 Merchandise exchanges</p> <p> .12 Industries fairs</p> <p> .14 Local markets</p> <p> .15 Market halls</p> <p> .17 Auctions</p> <p>381.2 Persons engaged in trade. <i>See also 332.62;</i>
 347.732</p> <p> .24 Brokers</p> <p> .26 General representatives. Local agents</p> <p> .27 Travellers</p> <p>381.3 Middleman trade</p> <p> .31 Wholesale trade</p> <p> .32 Intermediary wholesale trade</p> <p> .33 Commission business</p> <p>381.4 Warehouses. Depots</p> <p>381.5 Retail trade. Shops</p> <p> .51 Large stores. <i>See also 334.5</i></p> <p> .511 Department stores</p> <p> .513 Chain stores. Multiple shops</p> <p> .514 One-price stores</p> <p> .52 Small stores, shops</p> <p> .53 Hawking. Colportage</p> <p> .54 Sale by automatic machine</p> <p> .55 Antique and secondhand trade. <i>See also</i>
 7.075</p> <p> .57 Occasional trade. Temporary shops.</p> <p> .59 Amateur shopkeeping</p> <p> .591 Other questions</p> <p> .591 Places where shops are allowed</p> <p> .592 Time restriction. Closing time</p> <p>381.6 Elimination of middleman. Sale direct to
 consumer. <i>See also 334.5</i></p> <p>381.7 Questions relating to trade technique from the
 economic point of view. <i>See also 338.5;</i>
 381.2</p> <p> .71 General practice</p> <p> .717 Terms of delivery</p> <p> .72 Barter</p> <p> .73 Purchase</p> <p> .74 Sale</p> <p> .743/.745 Subdivide like 658.83/.85</p> <p> .747 Clearances</p> <p> .748 Terms of payment</p> <p>381.8 Various questions</p> <p> .81 Competition. Combine. Cornering. <i>See</i>
 <i>also 337; 338.6; 338.8; 38.011</i></p> <p> .82 Various questions relating to commercial
 and industrial ownership, frauds and
 abuses and the means of combating
 them. <i>See also 347.736; 347.776</i></p> <p> .822 Marks concerning weights, measures and
 origin</p> <p> .823 Distinctive brands and packings.</p> <p> Patented inventions</p> | <p>381.823.6 Illicit competition</p> <p> .829.3 Illicit trading. Smuggling</p> <p> .83 Dumping. Anti-dumping</p> <p> .84 Economic espionage</p> <p> .85 Boycott. <i>See also 341.323; 341.65</i></p> <p> .87 Trade nationalism. Movement to buy
 goods of national origin</p> <p> .872 Propaganda for home manufactures.</p> <p> National mark</p> <p> .877 Local trade patriotism</p> <p> .89 Other questions</p> <p> .893 Information of an economic and com-
 mercial character. Commercial pro-
 paganda from the economic point of
 view. <i>See also 659.23</i></p> <p>382 FOREIGN TRADE. International trade.
 <i>See also 380.12</i></p> <p> .1 Organization, various systems</p> <p> .14 Foreign trade politics</p> <p> .16 Balance of trade</p> <p> .2 Official and semi-official trade representation
 abroad. Trades missions. Consuls. <i>See</i>
 <i>also 341.8</i></p> <p> .3 Bonded warehouses. Free ports, etc.</p> <p> .4 Trade agreements. Air navigation agree-
 ments. <i>See also 341.24</i></p> <p> .5 Import</p> <p> .6 Export</p> <p> .7 Transit. Re-export of imported goods</p> <p> .8 Various questions. Subdivide like 381.8</p> <p>383/388 COMMUNICATIONS. TRANSPORT</p> <p> <i>Here are classified only economic questions.</i>
 <i>See also 625 and 629; 654 and 656</i>
 <i>The Special Auxiliary Numbers enumer-</i>
 <i>ated under 656.0 are applicable for internal</i>
 <i>use only</i></p> <p>383 Postal services</p> <p>384 Telecommunications. Telegraph, telephone,
 radio</p> <p>385 Railways</p> <p>386 Canals and inland waterways</p> <p>387 Sea transport. Ports, docks and harbours</p> <p>388 Roads and road transport</p> <p> .1 Roads. Bridges</p> <p> .4 Tramways and rapid urban transport</p> <p>388.9 Air transport</p> <p>389 METROLOGY. WEIGHTS AND
 MEASURES. STANDARDIZATION.
 <i>See also 531.7</i></p> <p> .1 Weights and measures. Systems: metric, etc.</p> <p> .16 Units of weight and measure. Standards</p> <p> .17 Numerical size and volumetric series</p> <p> .2 Universal time. Time signals</p> <p> .22 Summer time</p> <p> .6 Standardization</p> <p> .63 Standardization of measure</p> <p> .64 Standardization of quality</p> |
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39 Ethnography. Manners and Customs. Folklore

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| 391/397 | ETHNOGRAPHY. MANNERS AND CUSTOMS
<i>See also 572</i> | 394.2 | Public festivals |
| | | .25 | Carnival. <i>See also 391</i> |
| | | .3 | Dances. Games |
| 391 | Clothing. Costume. Fashions. Beauty culture | .4 | Official ceremonies: coronation, triumphal processions |
| 392 | Customs concerning private life | .5 | Pageants, processions |
| .1 | Birth. Puberty. Majority | .6 | Fairs. Country fairs |
| .13 | Couvade. Man child-bed | .7 | Customs of chivalry: tourneys, tournaments, etc. |
| .14 | Baptism. <i>See also 265.1</i> | .8 | Duel, suicide, hara-kiri. <i>See also 343.61</i> |
| .15 | Circumcision | .9 | Public hospitality. Relations with foreigners or towards specific persons. <i>See also 38; 392.7; 64.024; 65; 796/799</i> |
| .17 | Puberty rituals | | |
| .2 | Human sacrifices. Head hunting. <i>See also 291.3</i> | 395 | Ceremonial. Etiquette. <i>See also 177.1; 341.7</i> |
| .3 | Family life. <i>See also 173; 321.1</i> | 396 | Woman's place in society. <i>See also 331.4; 342.83; 371.1</i> |
| .5 | Marriage. <i>See also 173; 347.62; 348.6</i> | .1 | Emancipation. <i>See also 342.83</i> |
| .54 | Forms of marriage | 397 | Nomads. Gipsies |
| .544 | Polyandry, polygamy | 398 | FOLKLORE |
| .545 | Monogamy | .2 | Fairies. Myths. Legends |
| .6 | Sex life | .3 | Popular superstitions, beliefs and customs |
| .62 | Concubinage | .33 | Calendar festivals. <i>See also 264.04; 331.815; 394.4</i> |
| .63 | Celibacy | .332.416 | Christmas |
| .65 | Prostitution | .424 | New Year |
| .7 | Hospitality, friendship. <i>See also 392.3</i> | .4 | Supernatural world. Witches, etc. |
| .8 | Meals. <i>See also 394.1; 642</i> | .5 | Chap-books. Folk plays |
| .9 | Other questions | .6 | Riddles, conundrums, puzzles, mottoes, etc. |
| .91 | Nicknames | .7 | Dream books. <i>See also 159.963.3</i> |
| 393 | Death customs. Mourning. <i>See also 614.6</i> | .8 | Popular ballads |
| .1 | Burial. <i>See also 718; 726.8</i> | .9 | Proverbs. Sayings. Saws, etc. |
| .2 | Cremation. Incineration | | |
| .3 | Embalment. Death masks | | |
| .4 | Exhibiting the dead. Death vigil. Wake | | |
| .7 | Mourning | | |
| 394 | Public life. Social life. <i>See also 355.1; 79</i> | | |
| .1 | Banquets. Public meals. <i>See also 392.8; 642</i> | | |

4 PHILOLOGY. LINGUISTICS

See also 003; 301; 341.76; 371.9; 39; 571; 572; 612.78; 8; 9; Common Subdivisions of Language

Note: For those who prefer, it is possible to group linguistics and literature together. See thereon the note under 8 Literature

40 General Questions

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|-----|--|-------|---|
| 401 | Philosophy of language. Origin, development, history | 409.3 | Peculiar languages. Secret languages. Thieves' language. Technical language; e.g. 409.3:2 |
| 406 | Purism | .5 | Mimicry. Gesture language |
| 407 | Teaching of and study of languages in general.
<i>See also 372.6</i> | | |
| 408 | Kinds of languages and dialects | | |
| .3 | Living languages | 411 | Spelling and pronunciation |
| .4 | Dead languages. <i>See also 47</i> | .4 | Spelling reforms. Simplified spelling |
| .5 | Literary, commercial or everyday languages | 412 | Parts of speech |
| .55 | Commercial languages | 413 | Lexicography. Dictionaries |
| .7 | Dialects, patois | .1 | Words grouped according to their meaning and use |
| .8 | Hybrid languages. Conventional jargons. Pidgin-English, etc. | .11 | Names of places |
| .9 | Artificial and international languages. Basic English, etc. | .13 | Names of persons |
| .92 | Esperanto | .14 | Words related in form and meaning. Synonyms, etc. |
| 409 | Special means of conveying thought | | |
| .1 | Sign languages | | |

41 General Philology and Linguistics

413.163	Foreign words. Borrowed words
.164	Technical terms
.18	Idioms
.2	Other groupings: explanatory, etymological, phonetic, etc.
414	Phonetics
415	Grammar. Morphology. Syntax. Etymology
416	Metrics. Rhythm. Prosody. Versification
417	Auxiliary sciences. Criticism. Hermeneutics. <i>Exegesis. Subdivide by means of sign of Relation :</i>
418	Sources of philology. Study of sources. See also 8(091)

42/49 The Various Languages and Dialects

42/48	WESTERN LANGUAGES. See also 491.6 and 494.5
42	Western Languages in general
420	English
43	Germanic languages
430	German. High German
431	Low German
439	Other Germanic languages
.2	Frisian
.3	Netherlands languages in general
.31	Dutch, Northern Dutch
.32	Flemish
.36	Afrikaans
.38	Colonial West Indian languages
.5	Scandinavian. Nordic in the wide sense
.59	Icelandic
.6	Norwegian
.7	Swedish
.8	Danish
.9	Gothic (Eastern Germanic) languages
44	Romance or neo-Latin languages in general
440	French
449.0	Provençal
449.9	Catalan
450	Italian
459.0	Rumanian
459.9	Ladin. Romansch. Rhaeto-Romanic
46	Iberian languages
460	Spanish
469.0	Portuguese
469.9	Galician
47	Latin and Greek
471	Latin in general
472	Various languages and dialects of the Italian peninsula
.11	Umbrian
.12	Oscan
.13	Samnite
473	Latin at different stages of development: ancient (pre-classical), vernacular, mediaeval, modern
475	Greek in general. Classical Greek
476	Greek dialects: Ionic, Attic, etc.
477	Greek at different stages of development: mediaeval, modern, etc.
48	Slavonic and Baltic languages
481	Slavonic languages in general
482	Russian
482.6	White Russian
483	Ukrainian
484	Polish
485.0	Czech
485.4	Slovak

486	S. European Slavonic languages. Yugo-Slav languages. Serbo-Croat
.1	Serbian
.2	Croatian
.3	Slovene
.7	Bulgarian
488	Baltic languages
.2	Lithuanian
.3	Lettish
49	OTHER LANGUAGES. ORIENTAL LANGUAGES IN GENERAL. EXOTIC LANGUAGES
491	Various Indo-European (Indo-Germanic) Languages
.0	Indo-European or Aryan languages in general
.1	Indology in general
.2	Ancient Indian. Sanskrit
.3	Mediaeval Hindu. Pali. Prakrit
.4	Modern Indic languages. Hindi. Bengali
.5	Iranian languages. Persian
.51	Ancient Persian
.52	Avestan, or Zend
.6	Celtic
.62	Irish. Erse
.63	Scottish, or Gaelic properly so-called
.65	Cymric, Welsh. Cornish. Breton
.69	Iberian-Basque. Basque
.98	Armenian. Albanian. Other Aryan languages. Hittite
.99	Dead non-Aryan languages of Europe and Asia Minor
.994	Etruscan
492	Semitic languages
.1	Accadian languages. Babylonian-Assyrian
.2	Aramaic. Palestinian
.3	Syriac. Eastern Aramaic
.4	Hebrew
.45	Literary or modern Hebrew
.46	Yiddish
.49	Ancient Canaanite. Moabite
.7	Arabic
493	Hamitic languages
.1	Egyptian
.2	Coptic
494.1/.5	Turkish and Uralo-Altaic languages
.1	Manchu languages. Tungusian
.3	Turko-Tartar languages
.5	Finno-Ugrian language group
.511	Hungarian, or Magyar
.54	Western Finnish
.545	Estonian
494.6	Caucasian languages
494.7	Hyperborean languages. Eskimo languages. Arctic languages
494.8	Dravidian languages
495	Various Asiatic languages
.1	Chinese
.2	Thai-Chinese languages
.5	Assam languages
.6	Japanese
.7	Korean
.8	Burmese
.9	Southern Asiatic languages. Proto-Malaccan languages
496	African languages. Negro languages
.1	Hottentot languages
.2	Bushman languages
.3	Bantu languages. Kaffir languages
.6	Sudanic languages

497/498	American languages	499.21	Northern group of Indonesian languages (Tagala branch)
497	North and Central American languages	.22	S. and E. Indonesian languages: Malayan, Javanese
498	South American languages	.23	Oceanic languages. Melanesian and Polynesian
499	Austronesian and Australian languages	.5	Australian languages
.2	Indonesian languages. Malay-Polynesian languages		

5 NATURAL SCIENCES

501	EXACT SCIENCES IN GENERAL	E.g. 502.7:58	<i>Protection of plants</i>
502	NATURAL HISTORY IN GENERAL	:59	<i>Protection of animals</i>
.7	Protection of nature		<i>See also 719</i>

51 Mathematics

51.01	Philosophy of mathematics	513.5	Conic sections and other varieties of the second degree
511	ARITHMETIC. THEORY OF NUMBERS	.51/.55	Conic sections
.1	Numeration. Arithmetical operations	.56/.58	Quadrics
.2	General properties of numbers. Congruences and Diophantine equations of the first degree. Euler's function $\phi(m)$. Systems of residues. Quadratic residues. Quaternions with integral coefficients. Complex numbers. Division of the circle. Prime numbers. Partitions	.6	Algebraic curves, surfaces and varieties. Special transcendental curves, surfaces and varieties
.3	Arithmetical functions other than $\phi(m)$.7	Complexes, congruences, connexes. Infinitesimal and kinematic geometry. Transformations
.4	Forms and systems of forms. Linear and quadratic forms. Forms of any degree	.8	Non-Euclidean, and other forms of geometry. Topology. Functional and Hilbert spaces
.5	Diophantine equations of higher than first degree	.83	Topology. Analysis Situs
.6	Integral algebraic numbers	514	TRIGONOMETRY. POLYGONOMETRY
.7	Arithmetic theory of continued fractions	.1/.5	Plane trigonometry
.8	Transcendental numbers	.6	Spherical trigonometry
.9	Farey series, etc. Special classes of numbers. Polygonal numbers	515	DESCRIPTIVE GEOMETRY
512	ALGEBRA	516	ANALYTICAL GEOMETRY
.1	Elementary algebraic operations and formulae	.1/.4	Classical (Cartesian) analytical geometry
.2	Equations and functions of the first and second degree	.5/.9	Modern analytical geometry. Co-ordinate systems
.3	Theory of higher degree equations. Calculation of roots. Transcendental equations	517	ANALYSIS
.4	Galois' group theory and solution of higher degree equations by radicals	.1	General principles. Axiomatics
.5	Rational fractions. Algebraic interpolation	.2	Differential calculus
.8	Determinants and matrices. Linear substitutions. Elimination. Higher algebraic forms. Invariants and covariants	.3	Integral calculus
.9	General theory of imaginaries and of complex quantities. Vector analysis	.4	Functional determinants. Differential forms. Differential and integral operators
513	GEOMETRY	.43	Differential and integral operators and invariants. Operators of the vector calculus. Heaviside's operational calculus
.0	Generalities. Principles of geometry. Axioms. Analytical treatment. Infinitesimal methods and properties. <i>Subdivision from the standpoint of the theory of groups</i>	.5	General theory of functions
.1	Plane geometry in general	.51	Functions of real variables. Representation by series and definite integrals
.2	Circle geometry in general	.52	Infinite series. Infinite products. Algebraic continued fractions
.3	Solid geometry in general. Polyhedra	.53	Analytic functions of a complex variable
.4	Right cylinder and cone. Sphere and system of spheres. Theory of geometrical constructions	.54	Conformal representation
		.544	Dirichlet's problem. Boundary value problem
		.56	Algebraic, circular and various other functions

517.562	Circular, exponential and logarithmic functions	518.6	Other methods of calculation. Numerical solution of differential equations
.564	Hyperbolic functions. Bessel functions. Lamé functions. Spherical harmonics	.9	Mathematical puzzles, games and curiosia
.6	Definite integrals and in particular Eulerian integrals	519	COMBINATORIAL ANALYSIS. CALCULUS OF PROBABILITIES. CALCULUS OF VARIATIONS. GROUP THEORY. THEORY OF SETS
.7	Elliptic functions and their applications	.1	Combinatorial analysis
.8	Hyperelliptic functions. Abelian functions. Fuchsians	.2	Calculus of probabilities. Statistical mathematics
.9	Differential and partial differential equations. Functional equations. Finite differences. Recurrent series	.21	Calculus of probability
.91	Differential equations in general	.24	Analysis and interpretation of statistical material. Frequencies. Statistical series
.92	First order differential equations	.25	Statistical regularity. Errors of observation, not arranged in order. Mean or probable values
.93	Special differential equations of higher order and non-linear	.26	Qualitative observations
.94	Linear equations	.27	Quantitative observations
.941.9	Boundary problems of linear differential equations	.271	Observations affecting a one-dimensional variable
.944	Partial differential equations	.272	Observations affecting several measurable qualitative characteristics. Correlation
.947	Linear partial differential equations with constant coefficients	.28	Various questions. Statistical investigation of cause and expectation of future events. Quality control, operational analysis, actuarial calculations
.948	Functional equations		<i>Subdivide by sign of Relation:</i>
.948.32/.33	Integral equations	.3	Calculus of variations
.948.35	General linear operational equations. Spectral theory of linear operators	.34	Direct methods of calculus of variations. Dirichlet's principle. Ritz's method
.949	Theory of finite differences	.4	General theory of groups, fields and ideals. <i>See also</i> 512.4; 512.8
518	SPECIAL METHODS OF CALCULATION	.5	Theory of sets
.1	Generalities concerning methods of calculation		
.2	Logarithmic, trigonometric and other tables		
.3	Nomography		
.4	Graphical calculation		
.5	Mechanized calculation		

52 Astronomy. Geodesy

521/525	GENERAL ASTRONOMY	523.12	Cosmogony. Hypotheses concerning the origin and future of the universe
521	Theoretical astronomy	.123	World ice hypothesis
.0	<i>Special Auxiliary Numbers</i>	.16	Various cosmic phenomena. Cosmic dust. Cosmic rays
.03	Astrophysics	.2	Solar system
.04	Astrochemistry	.3	The moon
.07	Astrobiology	.4	Planets
.1	Celestial mechanics	.41	Mercury, and infra-Mercurial planets
.2	Description of orbits. Co-ordinates	.42	Venus
.3	Determination of orbits	.43	Mars
.4	Perturbations	.44	Asteroids
.5	Orbital motion of planets	.45	Jupiter
.6	Orbital motion of satellites	.46	Saturn
.7	Theory of comets	.47	Uranus
.8	Theory of occultations and transits	.481	Neptune
.9	Aberration. Precession. Nutation, etc.	.482	Pluto
522	Practical astronomy	.483	Other extra-Neptunian planets
.1	Observatories	.489	Hypothetical planets
.2	Telescopes	.49	Tables, photographs, atlases of planets
.3	Meridian instruments	.5	Meteors and zodiacal light
.4	Other observation instruments	.6	Comets
.5	Auxiliary instruments. Chronometers	.7	The sun
.6	Apparatus for recording and interpreting records. Calculating instruments	.74	Surface of the sun
.7	Spherical astronomy	.746	Sunspots
.9	Corrections. Errors	.78	Eclipses of the sun
523	Descriptive astronomy. Cosmography	.79	Sun charts, atlases and photographs
.1	Universe. Structure of the universe. Interstellar or interplanetary space	.8	Stars
		.82	Brightness. Magnitude. Visibility. Giant stars. Dwarf stars

523.83	Proper motions	526.2	Measurement of bases
.84	Variable stars. Novae. Double stars	.3	Triangulation. Levelling
.85	Star clusters and nebulae	.4	Calculation of triangulation
.854	Milky Way	.5	Errors. Compensation
.87	Spectra of stars and nebulae	.6	Astronomical determination of geographical co-ordinates
.88	Constellations. Their origin	.7	Measurement of gravity
.89	Star catalogues. Star atlases	.8	Cartography
.9	Transits and occultations	.9	Topography. Surveying. Instruments
525	The Earth. The Earth considered astronomically	.918	Photogrammetry
.1	Constants	527/529	APPLIED ASTRONOMY
.2	Physics of the Globe	527	Nautical astronomy. Navigational astronomy
.3	Orbit and motions of the Earth	529	Chronology. Measurement of time. The calendar
.4	Geographical co-ordinates. Determination on land. <i>See also</i> 527	.1	Day. Sidereal day. Solar day
.5	Seasons	.2	Time calculation in general
.6	Tides	.3	Calendars in general
.7	Terrestrial atmosphere. <i>See also</i> 551.51	.4	Christian calendar
526	GEODESY AND CARTOGRAPHY	.5	Calendar reformation
.1	Theory and determination of the shape of the Earth	.7	Measurement of time
		.78	Time measuring apparatus

53 Physics and Mechanics

53.0	<i>Special Auxiliary Numbers</i>	531.23	Moments
.01	Theory and nature of phenomena	.25	Graphical statics
.08	General principles of measurement and of physical instruments	.26	Attraction and potential
.081	Units. Constants	531.3	Dynamics
.082	Principles of measurement and of the structure of instruments	.31	Fundamental principles
.083	Methods of measurement. Direct measurement. Resonance methods. Ballistic methods. Null methods	.32/.33	Particle dynamics
.084	Construction of instruments. Components. Light sources. Heat	.35	Motion under central forces
.085	Apparatus for taking readings. Scales	.36/.38	Motion of a rigid body
.087	Observation. Recording	.39	Dynamics of material systems. Other problems
.2/.3	Subjective observation	531.4	Work. Friction
.4	Objective observation in general	.41	Work. Efficiency
.5	Photographic recording	.43/.46	Friction
.6	Graphical recording	.47	Resistance of free axes
.9	Auxiliary devices for calculating, counting, printing	.49	Various passive resistances
.088	Errors. Corrections	531.5	Gravitation. Weight. Pendulum laws. Ballistics
.089	Other questions. Calibration, etc.	.51	Gravitation. Gravity. <i>For general laws of attraction see</i> 531.26
530.1	GENERAL PRINCIPLES OF PHYSICS	.52	Laws of falling bodies
.11	The absolute in individual phenomena	.53	Pendulum theory
.12	Relativity principle	.55	Laws of motion of projectiles
.13	Principles of constancy and variability	.56	Secondary motion of projectiles in the air. Spin. Deviation. Atmospheric influences
.14	Synthesis of the principles of constancy and variability. Atomism in general	57	Motion in the barrel and penetration into the object struck. Internal ballistics. Perforation
.145	Quantum theory. Wave mechanics	531.6	Mechanical energy. Conservation of mechanical energy
.15	Principles of action and reaction	.61	Mechanical energy. Conservation of mechanical energy
.16	Principle of causality and principle of probability. Analogies	.62	Law of the conservation of energy in mechanics
.19	General considerations concerning fundamental concepts such as potential, intensity, capacity	.64	Mechanical energy of space. Potential energy
531	MECHANICS	.65	Mechanical energy of motion. Kinetic energy
.01	Mathematical theory of mechanics	.66	Collisions. Impact
531.1	Kinematics. Geometry of motion	531.7	Measurement of geometrical and elementary mechanical magnitudes
531.2	Statics and graphical statics	.71	Measurement of length
.211	Force. Mass		
.22	Composition and resolution of forces		

531.711	Standards of length. Standard meter.	534.4	Analysis and synthesis of vibrations. Resonance methods
.713	Comparators and cathetometers for line measurement and scales	.41	Qualitative analysis of vibrations
.714	Measuring instruments and machines	.415	Stroboscopy
.715	Other precision instruments. Various optical methods	.44	Quantitative analysis of vibrations
.716	Industrial measuring apparatus. Less exact apparatus	.5	Composition of vibrations. Interference
.717	Measurement of thickness. Spherometer. Measurement of diameters, straightness, parallelism. Screw pitches. Depth calipers	.6	Beats
.718	Gauges and gauging in general	.61	Acoustical measurements
.719	Other instruments for measurement of length. Curvimeters. Measurement of distance. Measurement of depth	.63	Measurement of intensity
.72/.79	Measurement of other elementary magnitudes	.64	Measurement of frequency
.72	Measurement of surfaces and sections	.647	Measurement of acoustical impedance
.729	Calipers	.7	Measurement of trepidations. Earthquakes. Seismographs
.73	Measurement of volume of solids, liquids and gases	.8	Physiological acoustics
.74	Measurement of angles	.83	Applications
.75	Determination of mass and density	.84	Noise abatement
.76	Measurement of time, velocity and acceleration	.85	Architectural acoustics
.77	Measurement of angular velocities	.86	Acoustics of gramophone records and loud speakers
.78	Measurement of forces, work and pressure	.87	Problems of radio broadcasting and sound recording
.79	Other measurements. Counting and dividing	.88	Acoustic signalling
531.8	Applied mechanics	535	Sound-ranging. Direction finding
532	MECHANICS OF FLUIDS. HYDRAULICS	535.1	OPTICS. LIGHT
.1	Hydrostatics in general		Theory of light
.12	Compressibility		Emission theory
.13	Internal friction. Viscosity		Wave theory
.2	Equilibrium of liquids		Electromagnetic theory
.29	Levels. Spirit-levels		
.3	Hydrostatics of immersed and floating bodies	535.2	Radiation. Photometry
.5	Fluid motion. Hydraulics. Hydrodynamics	.21	Effects of radiation
.57	Hydrometry	.211	Thermal effect
.6	Capillarity. Surface tension	.212	Luminous effect
.7	Kinetic theory of liquids. Solution and crystallization phenomena	.214	Mechanical effect. Radiation pressure. Radiometry
.71	Osmosis	.215	Electrical effect. Photo-electricity
533	GASES. PNEUMATICS. AERODYNAMICS	.218	Magnetic effect
.1	Properties of gases	.22	Velocity
.2	Elasticity and compressibility	.23	Energy of radiation
.4	Barometry	.24	Intensity of light. Photometry. Measurement
.5	Rarefaction of gases. Vacua	.241	Photometric units
.6	Aerodynamics. Aeronautics	.242	Photometers
.7	Kinetic theory of gases	.245	Measurement of mean intensity and of illumination intensity
534	VIBRATIONS. WAVES. SOUND. ACOUSTICS	535.3	Reflection. Refraction. Absorption. Emission
.0	<i>Special Auxiliary Numbers</i>	.31	Geometrical optics. <i>See also</i> 535.8
.01	Theory of vibrations	.311	Rectilinear propagation. Shadow
.011	Transverse waves	.312	Reflection. Plane mirrors
.012	Longitudinal waves	.313	Curved mirrors
.013	Torsion waves	.314	Refraction
.1	Vibration of bodies	.315	Prisms
.2	Propagation of vibrations. Velocity. Refraction, etc.	.316	Thin lenses. Astigmatic lenses
.3	Characteristic vibrations of bodies	.317	Thick lenses. Optical systems
.32	Sound	.318	Objectives and eyepieces in general
.321	Pitch	.319	Testing for optical homogeneity, parallelism of plates
.9	Ultra-sonic vibrations	.32	Refractive indices. Dispersion. Refractometry
		.322	Measuring instruments
		.329	Anomalous dispersion
		.33	Spectra in general. Emission spectra
		.34	Absorption. Absorption spectra
		.35	Excitation. Extinction
		.36	Diffusion. <i>See also</i> 535.4
		.37	Luminescence. Fluorescence. Phosphorescence
		.39	Mutual influence of refraction, absorption and reflection. Dichroism. Metallic reflection

535.4	Interference. Diffraction. Scattering by diffraction. Tyndall effect. <i>See also</i> 535.36	536.54	Calorimetric methods of thermometry
535.5	Polarization. Double refraction	.55	Other methods
.51	Polarization	.58	Thermoregulation. Thermostats. Maintenance of constant temperature
.52	Optical surfaces and axes. Double refraction	536.6	Measurement of quantity of heat. Calorimetry
.54	Chromatic polarization	.62	Methods
.56	Rotation. Polarimeters	.63	Specific heat
.58	Rotary dispersion	.65	Latent heat
535.6	Colours	.66	Heat of reaction
.61	Generalities. Wave lengths	.662	Of combustion
.62	Composition of colours. Colour mixing	.68	Determination of thermal requirements
.64	Colour systems. Theories of colour	536.7	Thermodynamics. Technical theory of heat
.65	Colour measurement. Methods. Apparatus	.71	Change of state
.66	Colours of bodies. Colouring power. Covering power	.711	Adiabatic
.68	External influence of illumination, etc.	.712	Isothermal
535.7	Physiological optics. <i>See also</i> 612.84	.713	At constant pressure
.767	Optical relief. Binocular vision. Stereoscapy	.714	At constant volume
535.8	Various applications. Optical instruments	.715	Under other conditions
.81	Optical glass. Prisms. Lenses	.717	Cycles. Diagrams
.82	Magnifying glasses and microscopes	.72	Equivalence of forms of energy. Law of conservation of energy. First law of thermodynamics
.83	Spectacles. Binoculars. Telescopes	.721	Mechanical equivalent of heat
.84	Micrography and macrography	.722	Transformation of energy
.86	Camera obscura. Periscopes	.73	Second law of thermodynamics
.87	Mirrors. Reflectors	.74	Thermodynamic temperature
.88	Projection apparatus	.75	Entropy
.89	Light sources for special purposes	.76	Relations deduced from the two laws
536	HEAT. THERMODYNAMICS	.763	Clapeyron's equation
536.1	General theory	.765	Maxwell's laws
536.2	Heat conduction. Heat transference	.77	Free energy. Thermodynamic potential
.21	In solids	.773	Van't Hoff-Le Chatelier principle
.22	In liquids	.775	Gibbs' phase-rule. Degrees of freedom
.23	In gases	.78	Joule's law of the energy of gases
.24	Heat conduction. Heat transfer	.791	Third law of thermodynamics. Nernst's theorem
536.3	Action of bodies upon heat and upon heat radiation	536.8	Theory of heat engines
	536.3:535.312 <i>Reflection</i>	537	ELECTRICITY
	.3:535.314 <i>Refraction</i>	537.1	Theory of electricity
	.3:535.34 <i>Absorption</i>	.11	Fundamental concepts
.33	Heat radiation	.12	Negative electricity. Electrons. Mass and dimensions of electrons
.35	Diathermancy	.13	Positive electricity. Protons. Positrons
.37	Various thermal effects of physical origin	.14	Neutrons. <i>See also</i> 539.185
536.4	Action of heat upon bodies	537.2	Electrostatics
.41	Dilatation	.21	Generalities. Attraction. Potential
.42	Change of state	.22	Electrification. Distribution and accumulation of electricity
.421	Fusion. Solidification	.223	Electrical machines
.422	Sublimation	.224	Condensers
.423	Vaporization. Boiling. Condensation	.226	Dielectrics
.424	Allotropic transformation	.227	Pyroelectricity
.44	Critical points	.228	Various effects of an electric field. Piezoelectricity. Electrostriction. Electrical double refraction. Stark effect. Kerr effect
.45	Incandescence. Phenomena at high temperature in general	.24	Special cases. Charge on small particles. Electroprecipitation
.46	Combustion. Flames	537.3	Electric current. Electrokinematics. <i>See also</i> 538.3; 541.13
.48	Phenomena at low temperature	.31	Propagation of electricity
.49	Other effects of heat upon bodies and upon physical phenomena	.311	Generalities
536.5	Temperature measurement. Temperature control	.1	Nature of conduction. Theory of the motion of electrons in conductors. <i>See also</i> 537.12
.081	Units of temperature. Scales		
.51	Thermometers		
.52	Pyrometry in general		
.53	Electrical methods of thermometry		

537.311.2	Ohm's law	537.727	Phase displacement. Determination of sequence of phases. Power factor
.3	Resistance and conductivity of various substances: metals, metalloids, non-electrolytic liquids, gases	.728	Measurement of power
.4	Contact resistance	.74	Measuring instruments. <i>Subdivided in parallel with 621.317.7; e.g.</i>
.5	Distribution of current. Effect of shape of conductor	.741	Apparatus for measuring current intensity and quantity of electricity
.6	Resistance to alternating current. Inductance	.742	Apparatus for measurement of potential and electromotive force
.62	Resistance to high-frequency current	.79	Results of measurement. Constants
.8	Overload and its phenomena		
.312	Various influences upon conductivity and resistance. Light. Temperature. Magnetic field. Mechanical stresses	538	MAGNETISM. ELECTROMAGNETISM
.62	Supra-conductivity	538.1	General theory
.313	Current circuits. Kirchhoff's laws	.11	General laws of magnetic action. Coercive force
.314	Velocity of propagation of currents	.12	Magnetic field. Potential. Field intensity
.315	Questions concerning the potential. Distribution of potential. Excess voltage	.13	Distribution of magnetism
.32	Thermo-electricity. Joule's law. Peltier, Thomson and Benedicks effects	538.2	Magnetic processes
.36	Electro - capillarity. Electro - endosmosis. Cataphoresis	.21	Generalities about magnetic properties. Permeability
.37	Other effects upon electric currents other than electrodynamic and electromagnetic	.22	Magnetic properties of various substances. Saturation. Ferro-, para- and diamagnetic substances
.39	Other effects of the electric current	.23	Hysteresis
537.5	Electric discharge. Electric radiation	.24	Magnetization and demagnetization
.52	Discharge	.26	Magnetic circuit
.521	Generalities. Losses. Discharge potential	.27	Various influences on permeability. Influence of radiation. <i>See also 535.218</i>
.523	Discharge in gases at normal pressure		
.525	Discharge in rarefied gases. Righi effect. Annular discharges	538.3	Electromagnetism and electrodynamics. <i>See also 537.3</i>
.8	Luminous phenomena at anode and cathode	.31	Reciprocal action of currents and magnets
.527	Discharges in compressed gases	.32	Mutual action of currents
.528	Discharge in liquids	538.5	Induction. Variable currents
.529	Discharge in solids	.51	General laws
.53	Radiation phenomena in discharges	.52	Special cases. Induction. Mutual induction
.531	X-rays. Non-corporeal radiations in discharge phenomena. <i>Here are classified studies in which X-rays and Gamma rays are treated together</i>	.53	Self-induction
.533	Cathode rays. Negative rays. <i>See also 539.16</i>	.54	Induction in non-rectilinear conductors. Eddy currents. Foucault currents
.534	Anode rays. Canal rays. Positive rays in general. <i>See also 539.16</i>	.55	Alternating currents
.54	Theory of production of electrical discharge. Discharge tubes. Electron tubes. <i>See also 621.385</i>	.551	General theory. Alternating current circuit. Harmonic alternating currents
.56	Ionization of gases. Ionization and resonance potentials. Form of ionization. Mobility of ions. Influences on, and effects of, ionization	.552	Polyphase currents
.57	Ionization of solid bodies and non-electrolytic liquids	.56	Electromagnetic oscillations. Hertzian waves. <i>See also 621.396. The properties of Hertzian waves are indicated by combining with 535; e.g. 538.56:535.312 Reflection of Hertzian waves</i>
.58	Thermo-ionization	538.6	Effects of and on magnetic fields
.59	Other discharges. Cosmic rays. <i>See also 523.16</i>	.61	Optical effects. Double refraction. Magnetic rotary polarisation. Zeeman effect
537.7	Electrical measurements. Electrical measurements and measuring instruments are classified for preference under 621.317	.63	Electrical effects. Hall effect. Corbini effect
.71	Units	.65	Mechanical effects. Magnetostriction. Piezomagnetism
.72	Measurements of various magnitudes	.66	Thermal effects. Pyromagnetism
-32	Absolute measurements	.67	Other effects on magnetic fields
-33	Relative measurements	.69	Other effects of magnetic fields
.721	Current intensity and quantity of electricity	538.7	Terrestrial magnetism
.722	Electromotive force. Potential	.71	Measurement of constants
.723	Resistance and conductivity, inductance, capacitance	.711	Intensity of the earth's field
.725	Oscillography. Analysis of the curves	.712	Declination
.726	Frequency	.713	Inclination
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		539	MOLECULAR AND ATOMIC PHYSICS
		539.1	Molecules. Atoms
		.11	Atomic structure of solids

539.13	Structure of molecules	539.386	Deformation by shearing
.15	Structure of atoms. Atom models. Physical system of elements	.387	Deformation by folding and winding
.16	Radioactivity. <i>See also</i> 537.53	.388	Other causes of deformation
.17	Artificial disintegration and transmutation of elements	.1	By fatigue
.18	Rays of uncharged particles. Neutrons	.2	By plastic processing or forging
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.26	X-ray structure	.0	<i>Special Auxiliary Numbers</i>
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.31	General theory. Elastic forces. Elastic potential. Elastic limit	.41	Resistance to elastic deformation
.32	Elastic moduli. Variation of the moduli under different conditions: temperature	.411	Compression strength
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.373	Permanent deformation	.415	Resistance to shear
.374	Plastic and viscous deformation	.416	Resistance to folding and winding
.375	Limit of deformation. Deformation at breaking	.417	Resistance to rolling and drawing
.376	Deformation under constant load	.42	Breaking stress
.377	Influence of temperature upon deformation	.43	Resistance to vibration. Fatigue
.378	Other types of deformation. Disintegration. Dispersion	539.5	Properties of material influencing deformability
.38	Deformations classified according to cause	.51	Malleability
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		.61	Adhesion
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		.89	Effect of mechanical influences
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54 Chemistry

541	THEORETICAL CHEMISTRY. GENERAL CHEMISTRY	541.18	Colloid chemistry. Capillary chemistry
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.11	Thermochemistry	.183	Adsorption
.12	Chemical mechanics	541.2	Atomic theory. <i>See also</i> 530.14; 539.15
.121	Chemical equilibrium. Phase theory in general	.23	Atomic weights
.122	Homogeneous equilibrium	.08	Determination of atomic weights
.123	Heterogeneous equilibrium	.24	Molecular weights
.124	Chemical dynamics in general. Mechanism of reaction. Coupled reactions. Activation	.08	Determination of molecular weights
.125	Reaction limits	541.4	Chemical compounds
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.127	Velocity of reaction. Reaction velocity coefficients. Guldberg and Waage's law	.42	Reactive and unreactive substances
.128	Catalysis	.43	Free elements
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.56	Electrovalency	.63	Analysis by ultra-violet light
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.61	Structural formulae	.66	Analysis by cathode rays
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.66	Thermochemical properties	.1	Gravimetric method
.67	Electrochemical and magnetochemical properties	.2	Titration method. Titrimetry
.68	Mechanical properties related to chemical structure	.3	Electrical methods. Electrolysis. Potentiometry. Conductometry
.69	Chemical properties of physiological interest	.31	Electrolytic precipitation
1.7	Allotropy. Physical isomerism. Enantiotropy. Monotropy	.37	Determination of the hydrogen ion concentration
.72	Enantiotropy	.4	Quantitative analysis by dry method. Cupellation. Blowpipe analysis
.73	Monotropy	.7	Quantitative gas analysis
1.8	Solutions and solubility in general	.8	Other quantitative methods
1.9	Classification systems for elements and compounds	.81	Colorimetry
12	EXPERIMENTAL CHEMISTRY. PREPARATIVE CHEMISTRY	.82	Quantitative spectrum analysis. Radiation analysis. <i>Subdivide like</i> 544.6
.1	Chemical laboratories. Equipment and arrangement	.83	Quantitative micro-analysis
.2	Apparatus and manipulation in general. Laboratory studies only	.84	Capillary analysis. Adsorption analysis
.22	Spatulas. Ladles. Mortars. Mills	546	INORGANIC CHEMISTRY
.23	Beakers. Dishes. Funnels. Tubes. Stirrers	546.1	Non-metals and metalloids in general
.24	Stands. Tripods. Tongs	.11	Hydrogen
.25	Stoppers	.12	Halogens in general
.26	Tubing. Lutes	.13	Chlorine
.29	Other accessories	.14	Bromine
.3	Measurement of weight and volume	.15	Iodine
.4	Heating and cooling and apparatus for heating and cooling	.16	Fluorine
.5	Flame. Blowpipe	.169	Element of atomic number 85
.6	Treatment with water and other liquids. Manipulation of liquids	.17	Nitrogen
.7	Manipulation of gases	.18	Phosphorus
.8	Electric and electrochemical manipulations	.19	Arsenic
.9	Other chemical processes. <i>Subdivide like</i> 66 09	.21	Oxygen. Water. Air
13	ANALYTICAL CHEMISTRY. <i>See also</i> 614.3	.22	Sulphur
.3	Water analysis	.23	Selenium
.6	Analysis of rocks and minerals	.24	Tellurium
.7	Analysis of inorganic substances	.25	Metalloids of 3rd and 4th groups in general
.8	Analysis of organic substances. Elementary analysis	.26	Carbon
.9	Biological analysis and biological reactions	.27	Boron
14	QUALITATIVE ANALYSIS	.28	Silicon
.1	By the wet method	.289	Germanium
.2	By the dry method. Bead analysis	.29	Inert gases
.3	Blowpipe analysis	.291	Helium
.4	Gas analysis	.292	Neon
.5	Analysis by aid of colloid chemistry. Capillary analysis. Adsorption analysis	.293	Argon
.6	Optical analysis	.294	Krypton
.61	Flame coloration	.295	Xenon
		.296	Niton. Emanation
		546.3	Metals in general
		.31	Metals of the first group in general
		.32	Potassium
		.33	Sodium
		.34	Lithium
		.35	Rubidium
		.36	Cæsium
		.37	Element of atomic number 87
		.39	Hypothetical ammonium
		.4	Metals of the second group in general
		.41	Calcium
		.42	Strontium
		.431	Barium
		.432	Radium
		.45	Beryllium

546.46	Magnesium	546.85	Elements of the fifth group in general
.47	Zinc	.86	Antimony
.48	Cadmium	.87	Bismuth
.49	Mercury	.88	Vanadium group in general
.5	Copper, silver and gold group	.881	Vanadium
.56	Copper	.882	Niobium
.57	Silver	.883	Tantalum
.59	Gold	.9	Elements of the eighth group in general
.6	Metals of the third group	.91	Platinum group
.621	Aluminium	.92	Platinum
.631	Scandium	.93	Iridium
.641	Yttrium	.94	Osmium
.65	Rare earths in general. Cerium group	.95	Ruthenium group
.654	Lanthanum	.96	Ruthenium
.655	Cerium	.97	Rhodium
.656	Praseodymium	.98	Palladium
.657	Neodymium	.99	Doubtful elements. Undefined elements
.658	Illinium		
.659	Samarium	547	ORGANIC CHEMISTRY
.66	Yttrium group	547.1	Organic chemistry in general. Carbon chains.
.661	Europium		Comparison between aliphatic and aromatic compounds
.662	Gadolinium	547.2	Acyclic compounds in general. Acyclic saturated compounds
.663	Terbium		Hydrocarbons
.664	Dysprosium	.21	Halogen derivatives
.665	Holmium	.22	Nitrogen derivatives. Amines, etc.
.666	Erbium	.23	Organic compounds of other metalloids.
.667	Thulium	.24	Phosphorus, arsenic derivatives, etc.
.668	Ytterbium	.25	Organo-metallic compounds
.669	Lutecium	.26	Alcohols. Mercaptans. Esters. Sulphonic and sulphinic acids
.68	Gallium group	.27	Ethers. Thio-ethers
.681	Gallium	.28	Aldehydes. Ketones
.682	Indium	.29	Carboxylic acids
.683	Thallium	547.3	Unsaturated compounds. Subdivide like 547.2
.7	Metals of the sixth, seventh and eighth groups.	547.4	Polyvalent compounds. Polysubstituted compounds
	Iron and manganese groups		Compounds in which no oxygen, sulphur or allied elements are directly linked with carbon
.71	Manganese group	.41	Higher alcohols and mercaptals and their derivatives
.711	Manganese	.42	Alcohols containing elements other than oxygen, sulphur, etc., directly linked to carbon
.718	Masurium	.43	Polyaldehydes and polyketones
.719	Rhenium	.44	Hydroxyaldehydes and hydroxyketones. Carbohydrates. Cellulose
.72	Iron	.45	Polybasic carboxylic acids
.73	Cobalt	.46	Hydroxy-acids
.74	Nickel	.47	Aldehyde- and keto-acids
.75	Metals of the sixth group in general	.48	Cyanogen derivatives. Carbonic acid derivatives. Urea
.76	Chromium	.49	
.77	Molybdenum	547.5	Cyclic compounds in general. Homocyclic compounds with a single nucleus
.78	Tungsten	.51	Homocyclic rings with fewer than five atoms
.79	Radioactive elements in general	.52	Aromatic compounds in general
.791	Uranium (Uranium 1)	.53	Benzene and its homologues
.792	Uranium family in general	.54	Sulpho-, nitroso-, and nitro-derivatives of benzene and homologues
.793	Radium A to Radium E	.55	Aniline and other non-oxygenated benzene derivatives
.794	Radium F or polonium	.56	Phenols and aromatic alcohols
.795	Actinium family in general	.57	Mononuclear aromatic aldehydes and ketones
.796	Protoactinium	.58	Mononuclear aromatic acids
.797	Actinium	.59	Mononuclear hydro-aromatic compounds
.799	Various families of radioactive elements	547.6	Polynuclear homocyclic compounds
.799.3	Neptunium	.61	Generalities
.799.4	Plutonium	.62	Directly linked uncondensed nuclei. Diphenyl
.8	Elements of the fourth group in general	.63	Indirectly linked uncondensed nuclei. Diphenylmethane. Triphenylmethane
.81	Tin and lead		
.811	Tin		
.815	Lead		
.82	Titanium group		
.821	Titanium		
.831	Zirconium		
.832	Hafnium		
.84	Thorium family		
.841	Thorium		
.842/.843	Members of the thorium family		
.842.1	Mesothorium		
.843.1	Thorium emanation		

547.64	Condensed nuclei in general	547.85	Azines in general. Pyridazine, pyrimidine group
.65	Naphthalene and its non-aromatic derivatives	.86	Pyrazines, oxazine, thiazine derivatives and analogous compounds
.652	Naphthalene	.87	Six-membered rings with three hetero-atoms
.66	Aromatic naphthalene derivatives	.88	Six-membered rings with more than three hetero-atoms
.67	Anthracene and derivatives	.89	Heterocyclic compounds with more than six-membered rings
.68	Condensed systems with more than three nuclei	547.9	Natural substances. Compounds of unknown composition
547.7	Heterocyclic compounds in general. Heterocyclic compounds with rings with three, four or five members	.91	Substantially aliphatic compounds
.71	Three- and four-membered rings	.912	Hydrocarbons
.72	Furan group	.913	Essential oils. Sesquiterpenes
.73	Thiophen group	.914	Resins. Gums
.74	Pyrrole group. Uncondensed pyrrole systems in particular	.915	Fats. Oils
.75	Condensed pyrrole systems	.5	Lipoids
.76	Five-membered rings with hetero-atoms other than oxygen, sulphur or nitrogen	.916	Waxes
.77	Azoles in general. Pyrazole group	.917	Carbohydrates
.78	Glyoxaline, isoxazole, oxazole, isothiazole and thiazole group	.918	Glucosides
.79	Five-membered rings with three or four hetero-atoms (other than exclusively S or O). Triazoles. Furodiazoles. Tetrazoles	.92	Sterols. Cholesterols. Phytosterols
547.8	Heterocyclic compounds with rings of six or more atoms	.93	Bile substances
.81	Pyran group. Thiopyran group, etc., with the exception of nitrogen compounds	.94	Alkaloids
.82	Pyridine and uncondensed derivatives of pyridine	.95	Phosphatides. Cerebrosides
.83	Condensed pyridine compounds	.96	Proteins
.84	Six-membered rings with two hetero-atoms which include no nitrogen. Dioxan and dithian compounds	.965	Albumin decomposition products
		.97	Natural colouring matters
		.972	Xanthone and flavone colouring matters
		.973	Anthocyanins
		.975	Cochineal
		.976	Alizarin
		.977	Litmus
		.98	Tanning substances
		.99	Other natural substances
		.991	Bitter substances
		.993	Poisons of animal origin

548 Crystallography. Study of Crystals

548.0	General crystallography	548.4	Irregularities. Inclusions. Occlusions
548.0:53	Physical crystallography	.5	Formation and growth of crystals. Single crystals. Twins. Recrystallization
548.1	Crystal systems	.6	Pseudomorphism
548.1:51	Mathematical crystallography	.7	Molecular structure of crystals
.2	Crystal association. Crystalline aggregates	.73	X-ray crystal structure. <i>See also</i> 539.26
.3	Chemico-morphological properties		

549 Mineralogy

549.091	Precious stones	549.6	Silicates. Titanates. Zirconates. Stannates
.1	Determination of minerals	.7	Other derivatives of oxides
.2	Elements in a free state. Carbides. Borides. Phosphides. Nitrides	.73	Oxyacid salts of trivalent elements
.3	Sulphides. Polysulphides and related minerals	.74	Oxyacid salts of tetravalent elements
.4	Halides	.75	Oxyacid salts of pentavalent elements
.5	Oxides. Hydroxides. Oxysulphides	.76	Oxyacid salts of hexavalent elements
		.8	Organic minerals
		.9(1/9)	Regional mineralogy

55 Geology. Meteorology

55(1/9)	Regional geology	550.36	Energetics and thermodynamics
550	COLLATERAL SCIENCES. METHODS	.37	Terrestrial electricity
550.2	Geoastronomy	.38	Terrestrial magnetism
550.3	Geophysics	550.4	Geochemistry
.34	Seismology. Earthquakes	550.7	Geobiology. <i>See also</i> 56
.35	Terrestrial radioactivity. Terrestrial radiation	550.8	Applied geology. Prospecting. Tests. Experiments

550.82	Mechanical methods. Drilling operations	551.313	Brackish water deposits (in river mouths, estuaries)
.83	Geophysical methods		Lagoon deposits
.84	Geochemical methods	.314	Abrasion and marine formations
.87	Divining rod	.35	Change of level. Transgressions.
.89	Experimental geology	.06	Regressions. <i>Special Auxiliary Numbers</i>
550.9	Other questions		Coastal and shallow sea deposits.
.93	Determination of geological age	.351	Reefs
551	GENERAL AND HISTORICAL GEOLOGY	.352/.353	Deep sea deposits
551.1	Form, structure and origin of the earth in general	.352	Bathyal deposits
		.353	Abysmal deposits
.11	General form of the earth	551.4	PHYSICAL GEOGRAPHY. GEO-MORPHOLOGY
.16	Core of the earth. Division into zones		Division of land from water
551.2/.3	Geological processes	551.41/.42	Continents
.2	Endogenous geological processes	.41	Islands
551.21/.23	Volcanism	.42	
.21	Volcanoes and extrusions	551.43/.45	Kinds of relief
.22	Intrusions. Batholiths, veins, etc.	.43	High relief formations. Mountain chains. Valleys. Terraces
.23	Thermal springs. Fumaroles	.44	Speleology. Wells. Caverns. Grottoes. Underground rivers. Karst phenomena
.24	Tectonic geology. Oscillations. Shifts. Folds. Upheavals. Settlings	.45	Plains. Deserts. Steppes
.241	Thickness of the earth's crust. Continent displacement in horizontal and vertical direction. Wegener's theory. Isostasy. <i>See also</i> 550.3	551.46	Oceanography
.242	Oscillations. <i>See also</i> 550.34	.018	Instruments and methods. <i>Special Auxiliary Numbers</i>
.243	Dislocations	.462	Submarine relief
.244	Epirogenic movement	.463	Physical properties of seawater
.245	Macrostructure of rocks	.464	Chemical composition of seawater
.25	Rock alterations due to endogenous forces. Metamorphosis. Intercalation. Deformations. Schistosity. Shrinkage cracks	.465	Marine currents. Dynamics and statics
551.3	Exogenous geological processes	.468	Coast forms. Inland seas
.05	<i>Special Auxiliary Numbers</i>	.3	Lagoons. Coastal pools
.051	Sedimentation, stratification. Sub-aquatic shifts. Intersecting stratification. Ripplemarks	551.48/.49	Hydrology
.053	Corrosion. Erosion. Disintegration	.48	Hydrography of the surface waters. Lakes. Rivers. Deltas. Waterfalls
.31	Terrestrial phenomena and formations	.018	Instruments. Measuring methods. <i>Special Auxiliary Numbers</i>
.311	Continental erosion and subaerial deposits	.49	General hydrology. Subterranean waters. Infiltration. Ground water. Springs. Hydrological prospecting
.1	Influence of temperature. Glaciers and their formation. Icebergs. Glacier erosion. Moraines. Erratic blocks. Specific landscape forms. Dust	.491.6	Water in the soil
.311.2	Influence of precipitation. Weathering. Soil formation. Action of rain and running water. Landslips. Mountain creep. Valley formation. Underground water weathering. Peneplains. Landscape formation in general. Connection between climate and type of weathered soil	.7	Permeability to water. Capillary phenomena
.3	Action of and formations due to wind	551.5	METEOROLOGY
.31	Dunes	551.50	Practical meteorology
.33	Loess	.501	Organization of observations. Investigation methods
.4	Zoogenous formations	.506	Collections of data
.5	Fulgurites, etc.	.508	Instruments
.6	Clastic deposits	.509	Weather forecasting and other applications
.7	Volcanic formations	551.51/.59	Theoretical meteorology. Phenomena
.8	Mud volcanoes	.51	Composition, structure, mechanics and thermodynamics of the atmosphere
.312	Deposits in fresh water	.510.4	Composition
.1	Spring deposits	.5	Structure
.2	Marshes. Peat formation	.511	Mechanics. Thermodynamics
.3	River deposits	.513	General circulation
.4	Lake deposits	.515	Atmospheric disturbances. Cyclones, etc.
		.52	Radiation and temperature of the atmosphere

551.521	Radiation	552.32	Calc-alkali rocks
.524	Temperature of the air	.33	Alkali rocks
.525	Earth temperature		
.526	Temperature of the water surface, viewed meteorologically	552.4	Metamorphic rocks
.54	Atmospheric pressure	.051	Structure. <i>Special Auxiliary Numbers</i>
.55	Wind	.42	Gneiss
.57	Humidity of the air. Cloud. Precipitation	.43	Crystalline schists
.571	Humidity	.44	Phyllites. Sericite slates
.573	Evaporation	.45	Quartzites. Itacolumites
.574	Condensation and deposit	.46	Marbles
.575	Fog and mist	.47	Serpentine schists
.576	Clouds	.48	Eclogites. Amphibolites
.577	Precipitation in general	552.5	Sedimentary, including loose volcanic, rocks
.578	Special forms of precipitation	.51	Coarse and medium arenaceous rocks
.579	Soil moisture and soil water formation	.52	Argillaceous deposits. Mud. Clay. Loam.
.58	Climatology	.53	Loess. Shales. Slates
.583	Climatic changes. Palaeoclimatology. <i>Subdivide by combination with the subdivisions of 551.7</i>	.54	Evaporation deposits. Salts. Gypsum
.59	Various influences and phenomena	.55	Calcareous rocks. Limestones. Marls
.590.2	Cosmic influences	.56	Siliceous rocks
.7	Biological influences	.57	Ironstones
.591	Visibility	.573	Combustible carbonaceous rocks
.593	Optical phenomena	.574	Anthracite
.594	Electrical phenomena	.575	Coal
.596	Acoustic phenomena. Thunder	.576	Jet
		.577	Lignite. Brown coal
		.578	Peat
		.58	Petroleum. Asphalt. Bituminous schist
			Organogenic rocks in general
551.7	STRATIGRAPHY. HISTORICAL GEOLOGY	552.6	Meteorites
.7(1)	Regional stratigraphy	553	ECONOMIC GEOLOGY AND MINER- ALOGY
.71	Archaeon	553.06	General classification according to origin of deposits. <i>Special Auxiliary Numbers</i>
.72	Algonkian	.062	Intramagmatic deposits
.73	Palaeozoic	.063	Intrusive deposits
.732	Cambrian	.064	Pneumatolytic deposits
.733	Silurian	.065	Hydrothermal metasomatic deposits
.1	Ordovician	.068	Sedimentary deposits
.3	Upper Silurian. Gothlandian	.069	Deposits of unknown origin
.734	Devonian	553.1	Determination and description of ores and of economic minerals
.735	Carboniferous	.12	Mineralogy. Determination
.736	Permian	553.2	Origin of minerals. Kinds of ore deposits. Alterations in the bedrock
.75	Strata common to Palaeozoic and Meso- zoic ages	553.3/.6	Occurrence of ores and other inorganic minerals
.76	Mesozoic	.3	<i>The numbers 553.4/.6 are subdivided like 622.34/.36</i>
.761	Triassic	.4	Iron and manganese ore
.762	Jurassic	.41	Other ores
.763	Cretaceous	.43	Gold and silver ores
.77	Cainozoic in general	.44	Copper ores
.78	Tertiary	.45	Lead, zinc, thallium and cadmium ores
.781	Palaeogenic or Old Tertiary. Nummu- litic	.46	Tin ores
.782	Neogene or Late Tertiary	.48	Chromium, molybdenum, tungsten, vanadium, niobium, tantalum, ger- manium ores
.79	Quaternary	.49	Cobalt and nickel ores
		.492.1	Other ores
551.8	PALAEOGEOGRAPHY. <i>Subdivide like 551.7</i>	.5	Bauxite
552	PETROLOGY. PETROGRAPHY	.6	Building stones, sculptors' stones, orna- mental stones
552.1/.2	General considerations	.61	Various inorganic minerals besides heavy metals
.1	Investigation methods. Physical and chemical character. Texture. Joint occurrence of various minerals, dia- genesis and metamorphism in general		Clay. Feldspar. Kaolin
.2	General classification of rocks		
552.3	Eruptive, or Igneous, rocks		
.31	General questions. Plutonic, hypabyssal and volcanic rocks in general		

553.62	Sand. Gravel. Quartz. Kieselguhr	553.93	Anthracite. Graphitic coal
.63	Various salts and other inorganic compounds	.94	Coal
553.7	Mineral waters	.96	Lignite. Brown coal
553.8	Precious and semi-precious stones	.97	Peat. Sapropel
553.	Combustible carbonaceous minerals	.98	Hydrocarbons. Petroleum. Aspl
.91	Graphite	.99	Bituminous schist. Mineral gas
			Fossil resins. Amber. Fossil cop

56 Palaeontology. Fossils

56(11)	Stratigraphic palaeontology. Zone fossils	561	SYSTEMATIC PALAEOBOTANY.
56(4/9)	Geographical palaeontology		<i>divide like 582</i>
56:57	Palaeobiology		
:581	Palaeobotany (general)	562/569	SYSTEMATIC PALAEOZOOLOGY.
:591	Palaeozoology (general)		<i>divide like 592/599</i>
56.0	Analytical palaeontology. Fossilization. Causes of general alterations. Problematics. Reconstructions. <i>Special Auxiliary Numbers</i>		

57 Biology

571/572	ANTHROPOBIOLOGY	575.6	Influence of migration on spec formation
571	Prehistory. Archaeology. Prehistoric man. Palaeoethnology	.7	Regeneration and degeneration. tinction
571(11)	Prehistoric periods		
571.1/.2	Stone Age remains	576.1	Origin of life. Evolution. Origin of spec
.1	Primitive objects		Phylogeny
.2	Tool worked objects	576.2	General morphology and physiology
.3	Copper and bronze objects	576.3/.7	Degrees of organic development of life
.39	Tin objects	576.3/.5	Cytology
.4	Iron objects	.3	General cell theory. Cytology. Pr
.5	Various objects including those of organic origin	.33	plasm
.7	Art objects	.333	Stimuli
.8	Remains of dwellings and buildings	.4	Tactisms and tropisms
.9	Various structures	.5	Movements of the cell
.91	Burials in general	576.6	Combination of cells and unicel organisms. Cell colonies
.912.4	Barrows	576.7	Symbiosis. Mutualism. Parasitism
.94	Stone monuments. Cromlechs		General histology. Organs. Organi
.96	Mounds	576.8	MICROBIOLOGY. BACTERIOLO
.97	Settlements	.0	PARASITOLOGY
572	Anthropology. Ethnology	.093	<i>Special Auxiliary Numbers</i>
	<i>See also 39</i>	.094	Microbiological technique
.1/.4	Anthropogeny	.095	Morphology
.1	Monophyletic or polyphyletic deriva- tion of man	.097	Physiology
.4	Place and time of man's origin	.85	Antigens and antibodies
.5	Somatology. Bodily characteristics of man	.858	Systematic bacteriology
.7	Morphology	.9	Virus species
.9	Ethnology. Theory of races	.88	Bacteriophages
574/577	GENERAL BIOLOGY	.89	Vegetable parasites
574	Collateral biological sciences	577	Animal parasites
.6	Applied biology. Technical biology	577.1	GENERAL PROPERTIES OF LIFE
.9	Biogeography	.15	Biochemistry. Biological chemistry
.91	Migration. Transposition of species	.16	Enzymes. Enzymology
575	Heredity. Development of organisms	.17	Vitamins. Vitaminology
.1	Theory of heredity. Mendel phenomena	.2	Hormones. Other biological cat
.2	Theory of variation. Theory of mutation	577.3	Life. Comparison between life and
.3/.7	Species formation. Factors influencing species formation	.39	Biophysics. Biological energetics
.3	Adaptation to environment. Morpho- genesis. Lamarckism	.4	Stimuli. Reactions of living bein stimuli
.4	Natural and artificial breeding choice. Selection. Darwinism		General conditions of life. Hun
.5	Sexual selection		Drought

577.5	Plants compared with animals	578.08	Experiments. Biometry. <i>Special Auxiliary Numbers</i>
.6	Considerations about the existence of life.	.6	Microscopy of biological objects
.7	Vitalism		
.8	Death	579	Natural history collections. Biological collections
.9	Generation. Sexuality		
	Phenomena of growth and propagation of living tissues	.1/.5	Dressing
		.6	Technique of collecting
578/579	BIOLOGICAL TECHNIQUE	.7	Mounting of collections
578	Biological technique. Microscopy	.8	Maintenance and preservation of collections

58 Botany

581	GENERAL BOTANY. PLANT BIOLOGY	582.262	Conjugatae
.0	Internal and external factors. Development factors. Experiments. Culture methods. <i>Special Auxiliary Numbers</i>	.263	Chlorophyceae. Green algae in general
.08	Experimental botany	.264	Protococcales. Volvocaceae
.09	Culture methods	.265	Ulotrichales. Ulvaceae
.1	Plant physiology	.266	Siphonocladales. Cladophoraceae
.11	Circulation of water and gases. Absorption. Exudation. Transpiration	.267	Siphonales. Caulerpaceae
.12	Catabolism. Respiration	.271	Charophyta. Characeae. Stoneworts
.13	Assimilation. Nutrition. Reserve substances. Secretion. Symbiosis. Metabolism	.272	Phaeophyceae. Brown algae
.14	Development. Germination. Growth. Flowering	.273	Rhodophyceae. Red algae in general
.15	Variability. Variation. <i>See also</i> 581.3	.274	Bangiales
.16	Reproduction. Heredity	.275	Florideae
.17	Cell physiology	.28	Eumycetes. True fungi
.18	Movement. Sensitivity to stimuli. Tropisms and tactisms	.281	Phycomycetes. Algal fungi
.19	Plant chemistry. Physiological chemistry of plants. Phytochemistry	.282	Ascomycetes
.2	Plant diseases. Phytopathology. Malformations. <i>Classify for preference under</i> 632	.283	Protomycetes
.3	Embryology	.284	Basidiomycetes in general
.4	Morphology	.287	Eubasidii. Mushrooms
.5	Ecology. Phytosociology. Plant and environment	.288	Fungi imperfecti
.6	Applied botany. Economic botany. <i>See also</i> 63	.29	Lichens
.8	Histology	.290	Phycolichens
.9	Plant geography. Flora. <i>Subdivide by means of the common subdivisions of Place</i>	.291	Ascolichens
		.296	Basidiolichens
582	SYSTEMATIC BOTANY. BOTANICAL TAXONOMY	.31	Asiphonogamous embryophyta. Archegoniatae
582.2/.3	CRYPTOGAMIA. SPORE PLANTS	.32	Bryophyta. Muscineae. Mosses in general
.21	Cryptogamia	.33	Hepaticeae. Liverworts
582.22	Thallophyta	.34	Musci. Mosses
.23	Schizophyta	.35	Pteridophyta. Vascular cryptogams. Fern-like plants in general
.231	Schizomycetes. Bacteria. <i>See also</i> 576.8	.37	Articulatae. Equisetaceae. Horsetails
.232	Schizophyceae. Blue-green algae	.38	Lycopodiinae. Lycopodiaceae. Selaginellaceae
.24	Phytosarcodina. Myxothallophyta. Myxomycetes. Slime fungi	.391	Psilotinae. Psilotaceae
.25	Flagellates	.392	Isoetinae. Isoetaceae
.251	Flagellatae	.394	Filicinae. Ferns
.252	Dinoflagellatae. Peridineae	582.4/.9	PHANEROGAMS
.253	Adiniferidea	.4	Embryophyta. Siphonogamia. Phanerogams or seed-plants in general
.254	Diniferidea	582.42	Gymnospermae or naked seed-plants
.258	Silicoflagellatae	.44	Cycadales
.259	Heterocontae	.47	Coniferae. Yews. Firs. Cypresses. Junipers
.26	Algae. Seaweeds	582.5	Angiospermae. Flowering plants
.261	Bacillariophyta. Diatomeae. Centricae. Pennales	582.52	Monocotyledoneae
		.522	Pandanales. Typhaceae. Pandanaceae. Sparganiaceae
		.53	Helobiae. Fluviales
		.532	Potamogetonaceae
		.533	Naiadaceae
		.535	Scheuchzeriaceae
		.536	Alismatineae

582.539	Hydrocharitaceae	582.683	Capparidaceae. Cruciferae
.541	Triuridales. Triuridaceae	.684	Resedineae. Resedaceae
582.542	Glumiflorae	.685	Moringineae. Moringaceae
.1	Gramineae. Grasses	.686	Bretschneiderineae
.2	Cyperaceae. Sedges	.69	Sarraceniales. Sarraceniaceae
.545	Principes. Palmae. Palms	.71	Rosales
.546	Synanthae. Cyclanthaceae. Panama hat plant	.715	Crassulaceae
.547	Spathiflorae. Araceae. Lemnaceae. Duckweeds	.716	Cephalotaceae
.55/.56	Farinosae. Flagellariaceae	.717	Saxifragaceae
.57	Liliiflorae. Liliales	.718	Pittosporaceae
.571	Juncineae. Juncaceae. Rushes	.719	Byblidaceae
.572	Liliineae. Liliaceae	.721	Brunelliaceae
.579	Iridineae. Iridaceae	.722	Cunoniaceae
.58	Scitamineae. Arillatae. Musales. Musaceae	.723	Myrothamnaceae
.59	Microspermae. Orchidales. Orchida- ceae. Orchids. Burmanniineae	.724	Bruniaceae
.599	Anomaliae. Monocotyledons not pro- vided for elsewhere	.725	Hamamelidaceae. Witch hazel
582.61	Dicotyledoneae	.727	Eucommiaceae
582.62/.89	Archichlamydeae	.732	Platanaceae. Plane tree
582.62/.66	Apetalae. Monochlamydeae. Incompletae	.733	Crossosomataceae
.621	Verticillatae. Casuarinaceae	.734	Rosaceae. Roses. Apples. Plums
.622	Piperales. Saururaceae	.735	Connaraceae
.623	Salicales. Salicaceae. Willows	.736	Leguminosae
.624	Garryales. Garryaceae	.737	Mimosoideae
.625	Myricales. Myricaceae	.738	Cesalpinoideae
.626	Balanopsidales. Balanopsidaceae	.739	Papilionatae. Peas. Beans
.627	Leitneriales. Leitneriaceae	.74	Pandales. Pandaceae
.628	Juglandales. Juglandaceae. Walnuts	.75	Geraniales
.629	Batidales. Batidaceae	.751	Geraniineae. Geraniaceae
.631	Julianiales. Julianiaceae	.752	Simarubaceae. Tree of Heaven
.632	Fagales. Betulaceae. Birches. Fagaceae. Beeches. Oaks	.754	Malpighiineae
.635	Urticales	.755	Polygalineae. Tremandraceae
.1	Ulmaceae. Elms	.756	Dichapetalineae
.2	Rhoipteleaceae	.757	Tricoccae
.3	Moraceae. Mulberries	.2	Euphorbiaceae. Spurge
.5	Urticaceae. Nettles	.759	Callitrichineae. Callitrichaceae
.637	Podostemonales. Podostemonaceae	.76	Sapindales. Celastrales
.639	Proteales. Proteaceae	.761	Buxineae. Buxaceae
.64	Santalales	.762	Empetrineae. Empetraceae
.641	Santalineae. Santalaceae	.763	Coriariineae. Coriariaceae
.642	Myzodendraceae	.764	Limnanthineae. Limnanthaceae
.65	Aristolochiales	.765	Anacardiineae. Anacardiaceae
.651	Loranthaceae. Mistletoe	.766	Celastrineae. Cyrillaceae
.653	Balanophorales. Balanophoraceae	.771	Icaciniineae. Icacinaceae
.657	Polygonales. Polygonaceae	.772	Sapindineae. Aceraceae
.66	Centrospermae	.773	Sabiineae. Sabiaceae
.662	Chenopodiaceae	.774	Melanthineae. Melianthaceae
.663	Amarantaceae	.775	Didiereineae. Didiereaceae
.664	Phytolaccineae. Nyctaginaceae	.776	Balsaminineae. Balsaminaceae
.665	Portulacineae	.78	Rhamnales
.666	Portulacaceae	.782	Rhamnaceae. Buckthorn
.667	Basellaceae	.783	Vitaceae. Vines. Grapevine
.668	Dysphaniaceae	.79	Malvales. Elaeocarpineae. Elaeo- carpaceae. Tiliaceae. Limes
.669	Caryophyllineae. Carnations	.81	Parietales
582.67/.89	Polypetalae. Choripetalae. Dialypetalae	.831	Tamaricineae. Elatinaceae
.67	Ranales	.835	Cistineae. Cistaceae. Rock rose
.671	Nymphaeinae. Nymphaeaceae. Waterlilies	.839	Cochlospermineae. Cochlosper- maceae
.672	Trochodendrineae. Trochodendraceae. Cercidiphyllaceae. Judas tree	.842	Flacourtiineae. Winteranaceae
.675	Ranunculineae. Ranunculaceae. Crow- foot. Buttercup	.843	Papayineae. Caricaceae
.677	Magnoliineae. Magnoliaceae	.844	Loasineae. Loasaceae
.678	Lauraceae	.845	Datiscineae. Datiscaceae
.68	Rhoeadales	.846	Begoniineae. Begoniaceae
.681	Rhoeadineae	.847	Ancistrocladineae. Ancistrocla- daceae
.682	Papaveraceae. Poppy	.85	Opuntiales. Cactaceae. Cactuses
		.86	Myrtiflorae
		.862	Geissolomataceae
		.863	Penacaceae
		.865	Thymelaeaceae
		.866	Elaeagnaceae
		.87	Myrtineae. Lythraceae
		.886	Oenotheraceae

.82.887	Halorrhagaceae	582.943	Polemoniaceae
.888	Hippuridineae	.948	Boraginineae. Boraginaceae. Borage
.889	Cynomoriineae. Cynomoriaceae	.949	Verbenineae. Verbenaceae. Vervain
.89	Umbelliflorae	.951	Solanineae. Solanaceae. Potato.
.892	Araliaceae. Ivy		Tomato
.893	Umbelliferae	.952	Orobanchaceae. Broom rape
.894	Cornaceae	.953	Lentibulariaceae. Bladderwort.
.82.9	Metachlamydeae. Sympetalae		Butterwort
.911	Diapensiales. Diapensiaceae	.955	Acanthineae. Acanthaceae
.912	Ericales. Clethraceae. Heaths	.956	Myoporineae. Myoporaceae
.918	Primulales. Theophrastaceae.	.957	Phrymineae. Phrymaceae
	Primulaceae. Primroses	.96	Plantaginales. Plantaginaceae
.919	Plumbaginales. Plumbaginaceae	.97	Rubiales
.92	Ebenales. Sapotaceae	.972	Rubiaceae
.93	Contortae	.973	Caprifoliaceae
.931	Oleineae. Oleaceae	.974	Adoxaceae
.933	Gentianineae	.975	Valerianaceae
.935	Loganiaceae	.977	Dipsaceae
.936	Gentianaceae	.98	Cucurbitales. Cucurbitaceae. Gourds
.937	Apocynaceae	.99	Campanulatae
.938	Asclepiadaceae	.992	Campanulaceae. Harebells
.94	Tubiflorae	.998	Compositae. Daisies
.941	Convolvulineae	.999	Other dicotyledones. Anomali
.942	Convolvulaceae. Bindweed		

59 Zoology

591	GENERAL ZOOLOGY	593.7	Hydrozoa
.08	Experimental zoology. <i>Special Auxiliary Numbers</i>	.71	Hydroidea
.1	Zoological physiology	.73	Scyphozoa
.1.05	Metabolism	.8	Ctenophora
.11	Blood. Blood circulation	.9	Echinodermata
.12	Respiration	.99	Enteropneusta
.13	Nutrition. Nutrition deficiency. Inanition. Senescence	594	Protostomata. Mollusca
.14	Secretion. Excretion. Lymph. Glands in general	.1/.5	Mollusca properly so-called
.15	Variation. Heredity	.1	Lamellibranchiata. Pelecypoda
.16	Reproduction. Gestation period. Biogenesis. Incubation	.2	Selenoconchae. Scaphopoda
.17	Movement. Locomotion	.3	Gastropoda
.18	Functions of the nervous system	.5	Cephalopoda
.2	Pathology. Teratology. Deformities	.6	Molluscoidea
.3	General embryology. Development theory. Ontogeny	.7	Bryozoa. Polyzoa
.4	Anatomy. Organology	.8	Brachiopoda
.5	Habits. Ethnology. Ecology. Bionomy	.9	Tunicata
.51	Psychology	595	Articulata
.6	Applied zoology. Economic zoology. <i>See also 636</i>	.1	Vermes
.69	Parasitology	.18	Rotatoria
.8	General histology. Tissue theory	.2	Arthropoda
.9	Zoogeography. Animal geography. Fauna	.3	Branchiata. Crustacea
592/599	SYSTEMATIC ZOOLOGY. ZOOLOGICAL TAXONOMY	.4	Arachnoidea
592/595	INVERTEBRATA	.5	Onchyophora. Protracheata. Peripatidae
592	Invertebrata in general	.6	Myriopoda
593	Plasmodroma	.7	Insecta. Hexapoda
.1	Protozoa	.71	Apterygogenea. Thysanura
.12	Foraminifera	.72	Orthoptera
.17	Infusoria	.73	Archiptera
.3	Coelenterata	.74	Neuroptera
.4	Spongiaria. Porifera	.75	Rhynchota. Hemiptera
.5/.8	Cnidaria	.76	Coleoptera
.5	Cnidaria in general. Zoophytes	.77	Diptera
.6	Anthozoa. Actiniaria	.78	Lepidoptera
		.79	Hymenoptera
		.799	Apidae
		596/599	VERTEBRATA
		596	Vertebrata in general
		597	Pisces. Fishes. Ichthyology.
		.1	Acrania. Leptocardia. Pharyngo-
			branchii

597.2	Marsipobranchii. Cyclostomata	599.31	Edentata
.3	Elasmobranchii	.32	Rodentia
.4	Ganoidei	.33	Insectivora
.44	Chondrostei	.4	Chiroptera
.48	Dipnoi. <i>See also</i> 597.6	.5	Cetacea
.5	Teleostei	.51	Mystacoceti
.6	Amphibia. Batrachia	.53	Odontoceti. Delphinidae
.7	Gymnophiona	.55	Sirenia
.8	Anura	.6	Ungulata in general
.9	Urodela	.61	Proboscidea
598	Sauropsida in general	.62	Hyracoidea
.1	Reptilia	.64	Homolodotheria. Toxodonta
.2	Aves. Birds. Ornithology	.65	Litopterna
.29	Saurians	.66	Amblypoda
.3	Grallatores	.71	Ungulata
.4	Natatores	.72	Perissodactyla. Single-hoofed animals
.5	Ratitae	.73	Artiodactyla. Cloven-hoofed animals
.6	Gallinacei	.735	Ruminantia
.65	Columbae	.74	Carnivora
.7	Scansores	.8	Quadrumanes. Primates
.8	Passeres	.81	Prosimiae
.81/.84	Oscines	.82	Simiae
.9	Raptatores	.88	Anthropomorphae
599	Mammalia	.9	Bimanes. Homo. Man. <i>Classify here the position of man in nature and comparative research concerning men and animals in general. See also</i> 572; 611; 612; 616
.1	Monotremata		
.2	Marsupialia		
.3	Placentalia		

6 APPLIED SCIENCES. MEDICINE. TECHNOLOGY

6(091)	GENERAL HISTORY OF INDUSTRY	608.1	Generalities. <i>Inventions concerning a specific subject are classified with that subject</i>
608	INVENTIONS AND DISCOVERIES. TRADE MARKS. <i>See also</i> 347.77	.3	Letters patent
608(084.1)	Drawings	.3(082)	Collections of letters patent
608(086.6)	Models of apparatus	.4	Patterns. Models. Drawings of inventions
608(088.7)	Trade marks	.6	Descriptions of trade marks and brands
608(088.8)	Patents	.6(082)	Collections of trade marks and trade names

61 Medical Sciences. Medicine. Hygiene. Pharmacy

611	ANATOMY	611.32	Pharynx and oesophagus
611-0	General anatomy. <i>Special Auxiliary Numbers</i>	.33	Stomach
-012	Teratology	.34	Intestines
-013	Embryology	.35	Rectum
-018	Histology. <i>See also</i> 581.8; 591.8	.4	Lymphatic and endocrine systems
-019	Comparative anatomy	.41	Spleen
611.08	Experiments. Observations	.42	Lymphatics
611.1/.8	Systematic anatomy. <i>Special anatomy. Splanchnology</i>	.43	Thymus
.1	Angiology. Circulatory system	.44	Thyroid gland
.12	Heart	.45	Suprarenals, adrenals
.13	Arteries	.6	Urogenital system
.14	Veins	.61	Kidneys and ureters
.2	Respiratory system	.62	Bladder and urethra
.21	Nose	.63	Male genital organs
.22	Throat. Larynx	.64	Penis
.24	Lungs	.65	Female genital organs
.3	Alimentary tract. Digestive system	.66	Uterus
.31	Mouth	.67	Vagina and vulva
.314	Teeth	.69	Mammary glands
		.7	Locomotor and integumentary system
		.71	Osteology. Bones
		.72	Syndesmology. Joints
		.73	Myology. Muscles

511.74	Tendons, aponeuroses, ligaments	612.7	Organs of movement. Voice. Skin
.75	Bursae. Synovial sheaths	.73/.74	Muscles
.77	Skin. Integuments	.75	Joints. Bones
.78	Hair. Nails. Combs. Feathers, etc.	.76	Locomotion. Principles of animal mechanics
.8	Nervous system. Sense organs		Voice and speech
.81	Central nervous system. Brain	.78	Skin, hair, nails, etc.
.82	Spinal cord	.79	
.83	Peripheral nervous system	612.8	Nervous system. Sense organs
.839	Autonomic nervous system	.81	Peripheral nerves
.84	Organs of sight. Eye	.82	Nerve centres. Brain
.85	Organs of hearing, of equilibrium.	.83	Spinal cord. Reflexes
	Ear	.84/.88	Subdivide like 611.84/.88
.86	Olfactory organs	.84	Physiological optics
.87	Taste organs	.86	Sense of smell
.88	Tactile organs	.89	Autonomic nervous system
.89	Nerve ganglia		
.9	Regional anatomy	613/614	HYGIENE AND PREVENTIVE MEDICINE
612	PHYSIOLOGY		
.01	General considerations. Theories and principles. <i>Special Auxiliary Numbers</i>	613	GENERAL AND PERSONAL HYGIENE
.012	Vivisection		Climatic factors
.014	Physiology of the cell	.1	Acclimatization
.2	Histophysiology	.11	Composition of the air
.4	Environmental influences	.15	
.015	Physiological chemistry. <i>See also</i> 577.1	613.2	Food and diet. <i>See also</i> 612.39
.016	Mechanisms of attack and defence.	.22	Child feeding
	Autotomy. Mimicry and symbiosis	.24	Fasting. Reducing and slimming diets
.017	Immunity. Anaphylaxis. Allergy.		Overfeeding. Fattening diet. Forced feeding
	Toxins and antitoxins	.25	Vegetable foods
.018	Hormones. <i>See also</i> 577.17 and 612.4	.26	Vegetarianism
.019	Comparative physiology	.261	Fruit, green and root food. Raw food
612.1	Blood and circulation	.262	Mineral foods
.12	Blood chemistry	.27	Animal foods. Meat, eggs, milk, butter
.14	Blood pressure	.28	Other foods. Spices
.17	Heart	.29	Beverages. <i>See also</i> 613.81 <i>Artificial foods</i>
612.2	Respiration	.3	
612.3	Digestion	613.4	Care of the body. Clothing
.32	Stomach	613.5	Housing hygiene. <i>See also</i> 645
.34	Pancreas	613.6	Occupational hygiene. Industrial hygiene
.35	Liver		Generalities on occupational diseases
.36	Defaecation	.62	Influence of noxious gases and dust
.38	Absorption	.63	Injurious physical influences. Noise.
.39	Physiology of nutrition	.64	Light. Crowding
.392	Foodstuffs in general. Vitamins. <i>See also</i> 577.16	.65	Excessive exertion, strain
.396	Carbohydrates	.67	Military hygiene
.397	Fats	.68	Nautical
.398	Proteins	.69	Other occupation
612.4	Glands in general. Secretion and Excretion	.693	Aviation
.41/.45	Subdivide like 611.41/.45	613.7	Hygiene of rest. Recreation and sleep
.46	Kidneys and urine	.71	(Swedish) Gymnastics
.49	Other glands and secretions	.73	Fatigue. Overtraining. Exhaustion
.492	Pituitary gland	613.8	Hygiene of the nervous system and in relation to morals
612.5	Animal heat. Body temperature	.81	Alcohol
612.6	Reproduction and development	.83	Narcotics
.60	Generalities concerning reproduction and development	.84	Tobacco
.61	Male reproductive system	.86	Mental and moral hygiene
.62	Female reproductive system	.88	Sexual behaviour. Sex education
.63	Fertilization. Pregnancy	.89	Marriage. Celibacy
.64	Physiological development of the organism	613.9	Hygiene in relation to race, age and sex
.65	Growth	.94	Eugenics
.66	Influence of age upon physiological processes. Puberty. Maturity. Lactation	.95	Child hygiene
.67	Senility. Death	.99	Hygiene of women. <i>See also</i> 618
.68	Longevity and rejuvenation		

614	PUBLIC HEALTH	615	PHARMACY. THERAPEUTICS. Pharmaceutics. Pharmacology. Materia medica. Drugs. Methods of treatment. Toxicology
614.1	Population. Depopulation	615.1	Pharmacology. Pharmacopoeias. Posology
614.2	Official and professional organization	615.2	Inorganic materia medica
.25	Medical profession. Practitioners	615.3	Organic materia medica
.253	Relations between doctors, etc., and colleagues, patients, etc. Rights.	.31	Carbon compounds in general
.253.5	Duties. Responsibility	.32	Vegetable medicaments. Drugs
.26	Nurses. Attendants	.36	Organotherapy
.27	Illegal practice of medicine. Quackery	.361	Treatment with hormones. Opotherapy
.28	Sale of medicines and drugs, secret remedies	.362	Treatment with normal body fluids, with external secretion fluids
.29	Sale of poisons	.37	Serology. Serotherapy. Bacteriotherapy. Vaccine therapy. Inoculation. Immunization
614.3	Health inspection. Government medical supervision of foodstuffs. Inspection of commodities	.371	Vaccine therapy
.31	Control and inspection of foodstuffs	.372	Pasteur treatment
.35	Inspection and control of medicines	.373	Serotherapy
.37	Inspection and control of various commodities, e.g. wallpapers, dyes, etc.	.38	Haemotherapy. Blood transfusion
.39	(State) Medical services	.4	Practical Pharmacy. Preparation of medicines and therapeutic remedies
614.4	Prevention of infectious diseases. Measures	.41	Pharmaceutical preparations. Powders, Pills, etc.
.44	Prevention and control of infectious diseases	.43	Pharmacognosy. Study of diagnostic characters of drugs
.45	Isolation	.45	Industrial manufacture of medicines
.46	Quarantine	.452	Proprietary medicines. Specialities
.47	Inoculation	.46	Dressings
.48	Sterilization. Disinfection	.47	Medical instruments. Apparatus. Nursing appliances. <i>See also</i> 616-7
614.6	Disposal of the dead	.471	Diagnostic instruments
.61	Cemeteries. Graveyards	.472	Surgical and medical instruments for therapeutic purposes
.62	Cremation. Crematoria	.473	Instruments for insertion and drainage. Catheters. Injection tubes. Irrigators
.63	Transport of corpses	.475	Medical apparatus and machines
.64	Embalment	.477	Trusses, pads and other appliances
614.7	Hygiene of soil, water and air. Pollutions. Drainage	.478	Medical and surgical furniture
614.8	Prevention of accidents. Safety measures	.49	Dispensary necessities. Capsules. Boxes. Tubes, etc.
.80	Accidents in general	.5	Pharmacodynamics. Pharmacology
.81	Drowning	.53	Homoeopathy. Allopathy. Dosimetry
.82	Accidents by falling, crushing, asphyxiation	.531	Homoeopathy. Allopathy
.825	Accidents due to electricity	.535	Dosimetry
.83	Explosions	615.7	Drugs classified according to their action.
.835	Storage of explosive or inflammable materials	.71	Chemotherapy
.84	Fire. Fire brigade	.72	Acting on circulatory system
.86	Safeguarding traffic and passengers	.73	Acting on respiratory system
.87	Safeguarding against cold or extreme heat	.74	Acting on digestive system
.88	First aid in accidents	.75	Acting on glands
.89	Personal safety measures against accidents. Safety clothing. Masks. Respirators	.76	Antipyretics. Anti-rheumatic agents. Anti-malarials
.891	Safeguarding head and face	.77	Acting on genito-urinary organs.
.893	Protection of the eyes. Goggles	.77/.779	Diuretics
.894	Protection of respiration. Gas masks	.78	External agents
.895	Protective clothing	.79	Disinfectants. Antiseptics. Insecticides
.896	Protection of arms and hands	.8	Acting on nervous system. Anaesthetics. Narcotics
.897	Protection of legs and feet	.81	Mineral waters. Spring waters
.898	Protection against chemicals, rays, heat, etc.	.82	Various curative methods
614.9	Animal hygiene. Veterinary hygiene	.83	Mechanotherapy. Artificial respiration
.97	Hygiene of slaughter-houses, abattoirs	.835	Massage
		.838	Physiotherapy. Nature cure
		.84	Air cure. Altitude cure
		.849	Hydrotherapy
		.85	Electrotherapy
			Radiotherapy. Radiology. <i>See also</i> 616-073
			Other curative methods

515.851	Psychotherapy	616-089.1	Generalities
.851.13	Psychoanalysis	.4	Dressing
.2	Hypnosis	.5	Anaesthesia. <i>See also</i> 615.78
.852	Faith cure. Prayer cure	.8	Operative technique
.856	Perkinism. Metallotherapy	-091	Morbid anatomy
.859	Rest cures	.5	Postmortem examination. Dissection.
.89	Popular curative methods. Household remedies	.8	Autopsy
.9	Toxicology. Poisons	-092	Morbid histology
		-093/-098	Pathological physiology. Pathogenesis
			Bacteriological and parasitological studies
616	PATHOLOGY AND CLINICAL MEDICINE	-099	Poisoning. Intoxication
516-00	Morbid lesions. <i>Special Auxiliary Numbers applicable throughout</i> 616, 617, 618	616-1/-9	Medical accessories
-001	Injuries. Wounds. Traumata	-1	Prosthetic materials
-002	Inflammation	-2	Models, casts
.5	Tuberculosis	-7	Instruments. Equipment
.6	Syphilis	616.1/.9	Special pathology. Medical specialities
.73	Leprosy	.1	Diseases of blood and circulatory system. Cardiovascular diseases
.77	Rheumatism	.12	Heart disease
.78	Gout	.13/.14	Vascular disease
.79	Fever. <i>See also</i> 616.91	.15	Blood disorders, anaemias, etc.
-003	Regressive lesions. Degeneration and regeneration. Transudation. Exudation. Wound cleansing	.2	Diseases of respiratory organs. Nose, throat and ear
-004	Sclerosis. Hardening	.21	Diseases of the nose. Rhinology
.6	Arteriosclerosis. <i>See also</i> 616.13	.22	Diseases of the throat. Laryngology
-005	Disorders in blood supply. Haemorrhage. Thrombosis. Embolism. Anaemia. <i>See also</i> 616.15	.23	Diseases of the trachea and bronchi
-006	Tumours. Cysts. Oncology	.24	Diseases of the lungs
.4	Cancer. Carcinoma	.28	Diseases of the ear. Otology
-007	Teratology. Malformations. Monstrosities. Congenital and developmental abnormalities	.3	Diseases of the digestive organs. Gastroenterology
-008	Disorders in function and metabolism	.31	Stomatology. Diseases of the mouth
-009	Local nervous disorders	.314	Dentistry. Odontology
616-02/-09	Various points of view concerning disease, patient, and treatment	-083	Dental nursing
-02	Origins of disease. Aetiology	-089.23	Orthodontia
-03	Various forms of disease. Indications for treatment. Prognosis. Localization	.28	Dental prosthesis
-05	Characteristics, attributes of the patient	.32	Diseases of nasal cavity and pharynx.
-053	Patient's age	.329	Tonsils
.2	Diseases of childhood. Pædiatrics	.33	Oesophagus
.9	Diseases of old age. Geriatrics	.34	Diseases of the stomach
-056	Constitution of the patient. Reaction. Predisposition	.35	Diseases of the intestines
-057	Occupation of the patient	.36	Diseases of the rectum
-06	Complications. Co-existence. Correlation. Antagonism between two affections	.37	Diseases of the liver, gall-bladder and bile passages
-07	Signs and symptoms. Diagnosis	.38	Diseases of the pancreas
-071	Clinical investigation. Anamnesis	.4	Diseases of the peritoneum and abdominal cavity
-072	Instrumental diagnosis. Endoscopy	.44	Lymphatic system. Glandular disease.
-073	Physical investigation. Electro-diagnosis. Radiography	.455	Endocrinology
-074	Laboratory and chemical diagnosis	.5	Diseases of the thyroid gland
-076	Microscopic investigation. Biopsy	.6	Adrenal disorders
-078	Bacteriological investigation	.61	Skin diseases. Dermatology
-08	Treatment. Management. <i>See also</i> 615	.63	Genito-urinary diseases. Urology. <i>See also</i> 618
-082	Medical attention and care	.7	Kidney diseases
-083	Nursing	.71	Urine disorders. Diabetes
-084	Preventive treatment. Prophylaxis. <i>See also</i> 614	.72	Diseases of the locomotor organs
-085	Therapeutic measures	.74	Bone diseases
-089	Surgical treatment. Surgical technique. <i>See also</i> 617	.8	Joint diseases
		.83	Muscular disorders
		.831	Neurology. Psychiatry
		.832	Diseases of the nervous system
		.833	Diseases of the brain
		.839	Diseases of the spinal cord
		.84	Diseases of the peripheral nervous system
		.85	Diseases of the autonomic nervous system
		.851	Functional disorders. Neurasthenia
			Functional neuroses
			Chorea

616.852	Hysteria	616.95	Diseases communicated to human beings by animals. Animal diseases
.853	Epilepsy. Falling sickness	.953	Rabies
.857	Headache, migraine	.956	Anthrax
.858	Parkinson's paralysis	.957.2	Thrush
.859	Sea sickness. Air sickness	.97	Venereal diseases.
.88	Diseases of the sense organs	.999	Infectious diseases in animals
.886	Diseases of the sense of touch	.32	Foot and mouth disease
.89	Psychopathology. Mental disorders.	.76	Cattle plague
	Psychoses. Insanity. Psychiatry		
.9	General and infectious diseases	617	SURGERY. <i>See also</i> 616-089
.91	Infectious fevers	.3	Orthopaedics
.912	Smallpox	.5	Regional surgery
.915	Measles	.7	Ophthalmology. Eye diseases
.917	Scarlatina. Scarlet fever		
.921.1	Dengue fever	618	GYNAECOLOGY. OBSTETRICS
.2	Weil's disease	.1	Gynaecology
.5	Influenza	.2	Obstetrics. Normal pregnancy
.922	Typhus fever	.3	Pathology of pregnancy. Toxaemias
.923	Plague	.4	Normal labour
.924	Relapsing fever	.5	Abnormal labour
.925	Epidemic cerebrospinal meningitis	.6	Normal puerperium
.926	Epidemic encephalitis (lethargica)	.7	Puerperal disorders, fever, etc.
.927	Typhoid fever		
	Paratyphoid	619	VETERINARY MEDICINE. VETERINARY SCIENCE
.928	Yellow fever		<i>Subdivide like 636 and by sign of Relation : with appropriate subdivision of 61. Classify here only comparative medicine in general and everything that concerns the anatomy, physiology, pathology and treatment of domestic animals. The same matters concerning other animals are classified under 59 Zoology</i>
.931	Diphtheria		
.932	Cholera		
.934	Epidemic diarrhoea. Sprue		
.935	Dysentery		
.936	Malaria		
.937	Trypanosomiasis. Sleeping sickness		
.94	Septicaemia. Blood poisoning		
.942	Erysipelas		
.946	Tetanus		

62 Engineering

620	GENERAL QUESTIONS	620.179	Other tests. Welding and adhesion tests
62.001/.004	Points of view. <i>Subdivide like .001/.004. See Common Auxiliary Numbers of Point of View (pp. 116-17)</i>	.1	Non-destructive tests
620.1	TESTING MATERIALS. FAULTS IN MATERIALS	620.18	Metallography. Etching. Analysis of grain structure
	<i>The special subdivisions -1/-9 given in 621 Construction of machines are applicable throughout 620.1</i>	620.19	Defects and deterioration in materials. Corrosion and erosion
.0	<i>Special Auxiliary Numbers</i>	.191	Surface defects. Corrosion in general
.05	Apparatus. Research machinery	.192	Internal defects in material and their investigation
.08	Measurements. Measuring instruments. <i>Subdivide like 53.08</i>	.193	Defects due to physical or chemical action. Resistance to attack
		.197	Protection against corrosion and other influences
620.11	Preliminary investigation of materials. Sampling. Test bars	.199	Accelerated testing
620.16	Technological testing. Tests in which the practical conditions are imitated	620.2	MANUFACTURED PRODUCTS IN GENERAL
620.17	Physico-technological investigation. Tests of strength	620.4	POWER STATIONS
.171	Generalities. Recording methods. Test conditions		<i>Classify here only general studies</i>
.172	Tensile tests	620.9	GENERAL ECONOMICS OF ENERGY
.173	Compression tests	.91	Sources of energy. Natural sources of energy
.174	Bending tests	.92	Potential uses of various sources of energy
.175	Torsion tests	.93	Application of mechanical, chemical, chemico-physical and physical energy in general
.176	Shearing tests	.95	Application of biological energy
.177	Folding tests	.96	Application of human physical energy
.178	Hardness tests. Durability tests. Subjection to a combination of influences		
.3	Fatigue tests		
.7	Impact tests		

620.97	Application of residuary energy. Re- cuperation of energy	621-3	Valve gear parts. Valve motion
.98	Selection of a source of energy for a specific purpose. Selection of motive power	-31	With to and fro motion. Slide valves. Sleeve valves
621	MECHANICAL ENGINEERING. ELEC- TRICAL ENGINEERING	-32	With rotary movement. Rotary slide valves
621-0/-9	MACHINERY AND APPARATUS <i>Special Auxiliary Numbers. These Auxiliary Numbers can be applied throughout 62/69 to indicate machine parts</i>	-33	With lift motion. Poppet valves
621-05	Machinery and apparatus divided accord- ing to users	-34/-38	Regulation. Drive for valve gear
621-1	General characteristics of machinery and apparatus	-39	Closing devices, etc. <i>Subdivide like 621.646/.647</i>
-12	With reciprocating motion	-396/-397	External shape of products or of semi- manufactured products and surfaces to be treated. Not for application to 621.4; 623; 629.1
-13	With rotary or oscillating motion	621-4	Flat surfaces. Plates. Blocks. Sheets. Strips
-133	Rotary machinery and apparatus in general	-41	Sections. Rods. Wire
-135	Turbine machines in general	-42	Articles and surfaces of various shapes. Prisms. Cylinders. Cones. Faces. Chamfers. Streamlined forms, etc.
-14/-15	Grouping of machinery and apparatus according to the mode of action of the working fluids	-43	Shaped pieces from templates or patterns
-14	Piston machines according to mode of action of the working fluids, single or double acting, 2 or 4 stroke, etc.	-44	Grooves. Slots. Grooved objects
-146	Action of the working fluid by stages. Compound action	-45	Tubes. Hollow objects
-15	Turbine machines according to the mode of action of the working fluid. Re- action. Axial, radial, tangential, flow or impulse	-46	Holes. Bores. Ring-shaped, barrel- shaped, wheel-shaped objects
-16/-17	Grouping of machines in general accord- ing to use of the working fluid. Expansion stages, condensation, etc.	-47	Special shapes. Gear teeth
-168	Back pressure, clearance	-48	Other forms. Grains. Powder. Fibres. Chips
-176	Engines driven by vapours other than steam	-49	Operation, adjustment and control
-18	Dimensions, velocity and other properties	621-5	Generalities on control and driving parts
621-2	Fixed and movable parts	-51	Automatic controls
-21	Fixed parts. Foundation. Bed plates	-52	Regulating and adjusting mechanism
-22	Fixed parts of moving elements. Cylin- ders. Passages. Ducts	-53	Mode of regulation. Parts between the regulator and the point at which it operates
-229	Tool holders. Work holders	-54	Governors
-23	Drive mechanism. Power transmission.	-55	Control by inertia, by buffer effect motion. Compensation. Governing by direct action of the machine
-231	Connecting rods. Guides	-56	Starting. Coupling. Starters. Clutches
-232	Gear systems	-57	Speed control. Reversing, accelerating and retarding devices
-233	Connecting rods, coupling rods, cranks	-58	Braking and stopping devices
-233	Rotating parts, axles, shafts, journals, knife edges	-59	Features and characteristics according to the fuel used
-234	Special methods for converting linear into rotary motion. E.g. Swash plates, cam discs, etc. <i>For crank shafts and eccentrics, see 621-233</i>	621-6	Servicing, safety, assembly and maintenance devices. Machinery operation and main- tenance
-235	Flexible transmissions. <i>Subdivide like 621.85</i>	621-7	Cooling
-237	Cranes and lifting tackle as part of the machine. <i>Subdivide like 621.87</i>	-71	Lubrication
-238	Fastening devices. <i>Subdivide like 621.88</i>	-72	Purification of fuel and of auxiliary substances. Filtering
-24	Parts with reciprocating motion	-73	Protection relative to the site
-242	Pistons	-74	Deformation and protection against it
-25	Rotary parts. Drums. Turbine wheels	-75	Defects caused in assembling
-26	Oscillating parts	-751	Shock, oscillation and vibration damp- ing devices
-27	Parts oscillating elastically	-752	Influence of natural forces and ambient conditions
-272	Springs	-753	Influence of axial shocks, compensation
-28	Surfaces	-754	Counterbalance of moving masses
		-755	Defects due to and protection against overloading
		-756	Precautions against stones, snow, barnacles and other extraneous factors
		-757	Boxes, casing, shields and similar pro- tective devices
		-758	Other safety devices
		-759	Protection of parts
		-76	

621-762	Devices for making watertight connections	621.2	WATER POWER. UTILIZATION OF HYDRAULIC ENERGY
-77	Devices to facilitate assembly, maintenance or repairs	621.2.01	Theory
-78	Devices for protection of staff and of the public	.09	Sources of water power
-781	Protective installations in general	.21	Waterwheels in general
-783	Protective devices against accidents while at work, guards, etc.	.22	Overshot waterwheels
-784	Protective devices against sickness, air purification	.23	Backshot, middleshot and undershot waterwheels
-785	Devices for protection of persons not operating the machinery, e.g. passengers	.24	Hydraulic turbines
-786	Clothing protectors	.25	Hydraulic pressure machinery. Force pumps. Pressure accumulators. Hydraulic pressure conduits
-788	Special safety devices for vehicles and ships	.26	Hydraulic drive of presses
-79	Measuring and counting devices, etc. Other devices	.27	Hydraulic rams
-8	Machinery or apparatus classified according to the motive power used	.28	Other forms of hydraulic energy. Energy of wave beat, of tides
-81	Steam-driven	.29	Complete hydraulic power plants. Devices for the storage of water power
-82	Hydraulic-driven	621.3	ELECTRICAL ENGINEERING. ELECTRICAL INDUSTRY
-83	Electric-driven	621.3.0	<i>Special Auxiliary Numbers</i>
-84	Internal combustion engine, driven	621.3.01	General studies. Definitions. Notation
-85	Pneumatically driven	.011	Fundamental formulae and quantities
-86	Mechanical, e.g. spring action	.012	Diagrams and characteristics
-87	Muscular. Manual	.013	Magnetic fields. Excitation. Inductive and capacitive interference
-88	Various methods of coupling	.013.4	Armature reaction
621.01	MECHANICAL ENGINEERING IN GENERAL. THEORY	.014	Current. Current distribution. Growth and decay of current
621.03	TECHNICAL PHYSICS	.3	Short circuit. Over-current
.039	<i>Collective works only</i>	.6	Leakage current
621.08	PRIME MOVERS	.7	Fault current
.086	Purely mechanically driven prime movers. Spring motors. Motors driven by weights	.015	Voltage. Voltage distribution. Rise and decay of voltage. Voltage drop
.087	Machines driven by muscular power. Treadmills, etc.	.3	Over-voltage. Surges. Transients
621.1	STEAM. STEAM ENGINES. BOILERS	.5	Disruptive voltage. Corona. Glow
	Production, distribution and utilization of steam power, steam engines, steam boilers	.016	Torque. Power. Load. Energy
621.1.01	Theory. Applied thermodynamics	.017	Losses. Heating. Efficiency
.11	Steam engines in general	.018	Phase. Frequency. Oscillations
.12	Marine engines	.1	Phase
.13	Railway steam locomotives	.12	Phase angle. Phase difference
.14	Steam tractors. Steam rollers	.14	Power factor
.15	Semi-portable steam engines. Steam road-locomotives	.3	Harmonics
.16	Stationary steam engines	.4	Frequency. Slip
.161	Reciprocating engines	.41	Frequency
.165	Steam turbines	.6	Mechanical oscillations. Falling out of step. Hunting
.166	Rotary piston steam engines	.7	Wave form. Distortion
.17	Working of steam plants. Steam. Condensation. Condensers. Coolers. Bursts	621.3.02	Type and range of current, voltage, resistance. Frequency range
.18	Steam boilers. Evaporators. Preheaters	.021	Weak current
.181	Types of steam boilers. Boiler plants	.022	Heavy current
.182	Boiler-houses. Maintenance. Firing	.023	High-frequency current
.183	Steam boiler accessories. Safety and servicing devices	.024	Direct current
.185	Boiler erection. Bricking in	.025	Alternating current
.186	Distribution and circulation of steam. Use of exhaust steam. Accumulators. Insulation	.027	Voltage range
.187	Boiler attendance. Boiler supervision	.028	Resistance
		.029	Frequency range
		.3	Audio-frequency
		621.3.03/.09	<i>Analytical subdivisions ordinarily applicable to particular sections of electrical engineering</i>
		621.3.03	Individual parts of lamps, discharge tubes, electronic equipment, electro-chemical apparatus and furnaces
		.032	Individual parts of lamps, discharge tubes and electronic apparatus
		.1	Filling

621.3.032.2	Electrodes. Grid	621.314	Transformation. Transformers. Con-
.3	Filaments		vertors. Rectifiers. Amplifiers
.7	Bulbs	.1	Direct-current (d.c./d.c.) transformation
.035	Individual parts of equipment in electro-	.2	Alternating-current (a.c./a.c.) transforma-
	chemical industry		tion. Transformers
.1	Vessels. Tanks	.25	Phase convertors
.2	Electrodes	.26	Frequency changers
.4	Electrolytes	.27	Simultaneous phase- and frequency-
.036	Individual parts of furnaces		changing by grid-modulated con-
.5	Casing		vertors
.6	Electrodes	.5	Convertors
621.3.04	Component parts, insulation and windings of	.6	Rectifiers
	machines and transformers	621.315	Transmission. Transmission and distribu-
.042	Magnetic circuit		tion lines. Conductors. Insulating
.043	Armature		materials. Insulators. Wiring. <i>See also</i>
.044	Field-magnet system		621.316.1; 621.316.26; 621.316.9
.045	Windings	.1	Overhead lines
.047	Current collection. Commutators. Brushes	.2	Cables
.048	Insulation	.3	Insulated wires
621.3.05	Transmission. Transmission lines	.5	Conductors. Conducting materials
.051	Power transmission in general	.6	Insulation
.052	Choice of system	.61	Insulating materials
.056	Mechanical stresses in overhead lines. Sag	.62	Insulators. Bushings
621.3.06	Switching. Switches. Circuit-breaking	.66	Poles. Pylons. Masts
.062	Methods of switching, of connection	.67	Conduits. Boxes
.064	Switching operations. Circuit-breaking in	.68	Joints
	general	621.316	Distribution. Switchgear. Regulation.
.066	Design and mechanism		Protection. Control
621.3.07	Regulation	.1	Distribution networks
.072	Regulation of electrical quantities	.2	Power supply to the network
.073	Regulation of magnetic quantities	.26	Substations
.076/.077	Methods of regulation	.3	Switchgear in general
.078	Automatic regulation	.34	Switchboards
621.3.08	Measurement. Instruments	.35	Busbars
.081	Units. Constants	.5	Switches. Circuit-breakers
.082	Principles of measurement	.7	Regulation. Regulators. Starters. Brakes.
.083	Methods		<i>See also</i> 621.398
.084/.085	Details of instruments	.72	Regulation of electrical quantities
.088	Errors. Correction of errors	.727	Power-factor correction
621.3.09	Transmission theory	.728	Load regulation
621.31	Electrical engineering in general	.729	Synchronization
621.311	Power generation and supply. Power	.8	Resistors. Rheostats
	stations	.9	Protection
.1	Supply networks. Electrification	.923	Fuses
.15	Output of power station. Load	.925	Relay protection
.16	Utilization of excess energy	.933	Surge diverters. Protective gaps
.161	Interconnection	.935	Current-limiting reactors. Earthing
.2	Power stations		reactors. Arc-suppression coils
.21	Hydro-electric power stations	.936	Protective capacitors
.22	Steam power stations	.98	Lightning conductors
.23	Power stations with other heat engines as	.99	Earthing
	prime movers	621.317	Measurements. Measuring instruments.
.24	Wind power stations		Indicators. Tariffs. <i>See also</i> 537.7
621.312	Development of means for supply and	.2	Equipment of electrical laboratories.
	utilization of electricity. Electro-industry		Laboratories for testing, calibration, etc.
621.313	Electric machines. <i>To specify individual</i>	.3	Measurement of electrical quantities
	<i>parts of electric machines (field, armature,</i>	.31	Current
	<i>windings, etc.) use the subdivisions under</i>	.32	Electromotive force. Potential. Vol-
	621.3.04		tage. Voltage gradient
.12	Generators in general. <i>See also</i>	.33	Resistance. Impedance. Inductance.
	621.319.3; 621.319.5; 621.396.61	.333	Capacitance
.13	Motors in general	.35	Insulation testing
.2	Direct-current machines	.36	Wave form
.3	Alternating-current machines	.37	Frequency. Slip
.8	Magneto-electric machines	.38	Power factor. Phase difference. Phase
		.39	sequence
			Torque. Power. Energy
			Electrical measurement of non-electrica
			quantities

621.317.4	Measurement of magnetic quantities. Magnetic testing	621.365.3	Direct resistance heating
.49	Magnetic measurement of non-magnetic quantities	.33	Electrode boilers
.6	Determination of the relation between various quantities. Characteristics	.4	Indirect resistance heating. Resistor furnaces
.7	Electrical measuring apparatus. Meters. Oscillographs	.5	Induction heating. Induction furnaces
.8	Supply tariffs	.92	Dielectric heating
621.318	Applied magnetism. Magnetic apparatus and materials. Coils. Relays	.366	Electric ignition devices
.2	Permanent magnets	.367	Electrothermic treatment of metals. <i>See also</i> 621.791.7
.3	Electromagnets	.369	Various applications of electric heating. Heating appliances. Drying stoves
.4	Coils	621.38	Electronics. Photocells. Discharge tubes. X-ray equipment. <i>See also</i> 615.84; 616-073
.5	Relays	.383	Photocells. <i>See also</i> 535.215
.7	Filter circuits	.384	Production of active rays and corpuscular beams
621.319	Applied electrostatics	.385	Electronic discharge apparatus
.3	Electrostatic generators	.1	Discharge tubes in general
.4	Capacitors	.831	Amplifying valves
.5	Surge generators	.832	Cathode-ray tubes
.7	Electrostatic fields	.833	Electron microscopes
621.32/.39	Specialized electrical technology	.386	X-ray tubes and accessories
621.32	Electric lighting equipment. Lamps. <i>See also</i> 621.3.032; 628.9	.389	Other electronic apparatus
.325	Arc lamps	621.39	Telecommunication
.326	Incandescent lamps	.391	General
.327	Other electric lamps. Discharge lamps	.392	Theory of communication lines, networks, feeders, wave guides
.329	Accessories	.392.4	Two-terminal networks
621.33	Electric traction	.5	Quadripoles
.331	Electrification for traction purposes	621.394	Telegraphy by wire
.332	Supply lines. Distribution	.14	Codes
.333	Electric motors for traction	.2	Manual telegraphy by a special code
.335	Locomotives. Motor vehicles. Trucks. Tractors	.3	Automatic printing, multiple writing and other systems
.2	Locomotives	.4	Multiple telegraphy
.4	Passenger vehicles	.5	Long-distance telegraphy. Cable telegraphy
.5	Trucks. Vans. Tractors	.6	Apparatus
.336	Current collection. Current collectors. Accessories	.61	Transmitters. Senders
.337	Controls. Control gear. Controllers. Braking	.62	Receivers
621.34	Electric drives apart from traction. Application of electricity to industry, agriculture, etc. <i>E.g.</i> 621.34:637.1 <i>Electric machinery in milk processing</i>	.63	Calling apparatus
621.35	Applied electrochemistry. <i>See also</i> 541.13	.64	Magnifiers and amplifiers. Repeaters
.351	Generation and storage of electrical energy by chemical methods in general	.65	Switching and distributing apparatus
.352	Generation. Primary cells	.66	Regulating apparatus
.355	Storage. Accumulators	.7	Installations. Lines
.357	Industrial applications of electrochemistry. Electroforming. Electro-deposition. Electroplating	.8	Quality of reception. Signal strength. Interference
.6	Electroforming	.9	Applications
.7	Electro-deposition. Electroplating	621.395	Telephony by wire
.8	Pickling. Colouring. Polishing. Anodizing	.2	Private telephone systems
.359	Industrial application of electrocapillarity. Electrical precipitation	.3	Public telephone systems
621.36	Electric heating. Thermo-electricity	.34	Automatic telephony
.362	Generation of electricity by heat. Thermopiles	.4	Multiple telephony
.363	Thermo-electric and thermomagnetic motors	.44	Carrier telephony
.365	Generation of heat by electricity. Electric furnaces	.5	Long-distance telephony. Cable telephony
.2	Arc furnaces	.6	Apparatus
		.61	Microphones. Transmitters
		.62	Receivers. Loud-speakers. Recording receivers
		.63	Calling apparatus
		.64	Repeaters. Amplifiers
		.65	Switching apparatus
		.66	Regulating apparatus
		.7	Installations. Telephone stations. Exchanges. Lines
		.73	Telephone lines
		.74	Grouping of lines and stations

.395.8	Quantity of reception. Signal strength.				
.9	Interference				
	Applications				Internal combustion engines. Charging.
		.06			Compression. Exhaustion
.396	Radiocommunication	.431			Exhaust. Exhaust gases. Silencers
.11	Propagation phenomena				Internal combustion and explosion engines. General considerations
.2	Systems of radiocommunication classified according to type of wave	.3			Generators and fuel tanks
.3	Systems for automatic radiotelegraphy	.7			Special applications
.4	Multiple transmission. Directional transmission	.71			Portable or semi-fixed engines
.44	Transmission by r.f. waves sent along a conductor	.72			Locomotive engines
		.73			Automobile engines
		.74			Marine engines
		.75			Aircraft engines
.5	Radiotelephony	.432			Construction of internal combustion engines. Two-stroke cycle, four-stroke cycle engines in general
.6	Apparatus and circuits				Gas engines working on coal-gas or methane
.61	Transmitters. Oscillators. Resonators. Oscillatory circuits	.433			Engines for vaporized liquid fuel
.611.1	Oscillatory-circuit characteristics	.434			Engines for solid fuel, for coal dust
.3	Coupled circuits	.435			Diesel engines. Semi-Diesel engines and the like. Glow-plug engines
.612	Capacitor discharge oscillators	.436			Diesel type engines with pre-combustion chamber
.613	Arc transmitters				Internal combustion engines with rotary or oscillating pistons
.614	High-frequency alternators				Gas turbines
.615	Valve oscillators	.5			
.619	Modulation				
.62	Receivers	.437			
.64	Amplifiers	.438			
.65	Radio links				
.66	Apparatus for control, regulation and protection	621.44/.49			Other engines
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.67	Aerials. Earths	.45			Jet propulsion engines. Rocket machines
.68	Power supply to valve transmitters and receivers	.47			Solar energy engines. Utilization of radiant energy
.7	Radio stations	.48			Other heat engines. Utilization of water, air or volcanic heat
.8	Quality of reception. Signal strength. Interference	.49			Application of other sources of energy
.9	Applications. Meteorological service. Communication with vehicles, ships, aircraft, etc. Broadcasting. Radar	.499			Application of various forms of chemical and physico-chemical energy
21.397	Television. Electrical picture transmission	621.5			PNEUMATIC MACHINES. REFRIGERATION TECHNOLOGY
.2	Transmission systems				Production, distribution and utilization of pneumatic energy. Compressors.
.3	Analysis and reconstruction of pictures. Scanning				Air pumps
.5	Television in general	.01			Theory and general considerations
.6	Apparatus				
.61	Transmitters	621.51/.54			Pneumatic apparatus and machines
.62	Receivers	.51			Compression of air and other gases. Compressors
.64	Amplifiers	.52			Rarefaction of air and other gases. Air pumps. Vacuum pumps
.7	Stations	.53			Conduction and distribution of compressed or rarefied air and other gases
.8	Quality of reception. Signal strength. Interference	.54			Application of compressed or rarefied air. Compressed air engines
.9	Applications	.542			Pneumatic tools
621.398	Telecontrol	.548			Wind-wheels. Wind-engines. Wind-mills
621.4	INTERNAL COMBUSTION ENGINES, HEAT AND OTHER SPECIAL ENGINES OTHER THAN STEAM ENGINES	621.56			Refrigeration
.41	Hot air engines	.564			Refrigerating media. Refrigerating substances. Refrigerants
.43	Internal combustion engines. Oil, petrol, paraffin and gas engines	.565			Refrigerators. Refrigerating plant
		.57			Refrigerating machines
-4	Injection of fuel. Mixture formation and turbulence. Carburettor elements. Special Auxiliary Numbers	.0			Special Auxiliary Numbers
		.01			Theory of refrigeration. Absorption and compression methods
.01	Theory	.04			Parts and accessories. Evaporators. Compressors. Condensers. Controls.
.03	Carburettors. Vaporizers. Fuel pumps. Injectors. Auxiliary equipment				Types of refrigeration machinery
.04	Ignition devices and methods	.572/.576			

621.573	Refrigerating machinery without liquids (Leblanc)	621.647.4	Rotary sprayers
.574	Compression refrigerating machines	.5	Fountains
.575	Absorption refrigerating machines	.7	Flushing apparatus
.576	Special refrigerating machines. Audiffren type. Vacuum type	.9	Various accessory devices for pipes, valves and taps
.578	Accessory devices. Simultaneous generation of cold and power	.92	Floats
.58	Ice manufacture	.649	Liquid raising devices other than pumps
.59	Apparatus for the production of intense cold and for liquefaction of gases. Containers. Cylinders for oxygen, hydrogen, etc.	.1	Dippers. Scoops
.592	Liquefaction of gases difficult to compress	.2	Well buckets
.593	Fractional distillation of liquefied gas mixtures	.4	Endless chain elevators
.595	Containers for transport and storage of compressed and liquefied gases and of solution of gases under pressure. Gas cylinders	.5	Archimedean screw apparatus, etc.
		.6	Bucket wheel elevators
		.7	Siphons
621.6	APPARATUS FOR CONVEYANCE AND STORAGE OF GASES AND LIQUIDS. CONDUITS AND PUMPS	621.65/.69	Pumps
.0	Generalities. <i>Special Auxiliary Numbers</i>	.65	Pumps with reciprocating pistons
.01	Theory	.658	Diaphragm pumps
.02	Conveyance of air and other gases	.66	Pumps with rotary or oscillating valves or pistons
.03	Conveyance of liquids	.67	Centrifugal pumps. Turbo-pumps
.05	Division according to the nature of the transfer. High and low pressure	.68	Special pumps. Measuring pumps. Separating pumps
621.61/.63	Blowing machines	.69	Raising by direct action of gas or steam
.61	Blowing machines in general. Bellows. Simple ventilators. Ventilators, jet and spray blowers	.693	Pulsometers
.63	Centrifugal ventilators. Exhausters. Fans	.694	Entrainment by jet. Injectors. Ejectors
621.64	Devices for conveyance and storage of gases and liquids in general	.695	Raising of liquids by mixing with air under pressure
.642	Reservoirs. Tanks	621.7	WORKSHOP PRACTICE
.1	Portable reservoirs. Pails. Casks		Individual processes in particular for metal
.2	On vehicles and vessels	621.71	Drawing offices: e.g. 621.71:744 <i>Technical drawing</i>
.3	Fixed reservoirs	621.72	Pattern making. Model making
.37	Underground reservoirs	621.73	Forges. Heavy and light forging
.643	Conduits. Pipes and accessory parts	621.74	Foundry work. Remelting
.1	Open conduits	.0	<i>Special Auxiliary Numbers</i>
.2	Closed conduits. Pipes	.03	Casting of special pieces. Tubes, compound casts, etc.
.3	Flexible pipes. Hosepipes	.04	Special foundry processes. Hard castings. Centrifugal casting. Die casting, etc.
.4	Flanges and connecting parts. Sleeves. Form pieces	.741	Kinds of foundry. Steel, iron, copper, light metals
.5	Tapping devices. Hydrants	.742	Preparation of moulding sand. Moulding sand and other moulding materials. Sandbeds
.644	Pipe lines	.743	Core making
.646	Parts for regulation, closure and security	.744	Moulding
.1	Closing devices in general	.745	Melting. Cupola furnaces. Melting crucibles
	<i>Particular parts of the apparatus are indicated by the special subdivisions of 621-3</i>	.746	Casting. Cast material
.2	Valves	.7	Casting flaws
.3	Flow regulators	.747	Dressing of castings. Finishing
.4	Pressure regulators. Safety valves. Pressure reducing valves	621.75	Tools and machinery manufacture. Fitting. Assembling
.5	Cut-off valves	.751	Preliminary treatment. Designing.
.6	Taps and cocks	.753	Tracing
.7	Mixing valves	.1	Tolerances. Fitting. Gauges
.8	Various safety devices	.2	Tolerance
.9	Accessories. Seatings. Thawing and cooling devices. Purification devices, etc.	.3	Fitting
.647	Sprayers. Fountains. Flushing devices. Floats	.755	Gauges. Calipers
.2	Spraying devices. Douches. Sprinklers	.756	Finishing in general
.3	Nozzles. Fire-hose nozzles	.757	Bench work
		621.77	Assembling. Assembly shops
		.771	Manufacture of parts and of materials in special form, such as sheet, plate, tube, ball, wire, powder, etc. <i>Only for general questions</i>
			Rolling and wire-drawing mills

621.772	Boiler works. Construction shops	621.8.03	Forms of energy to be produced, transmission, accumulation, conversion and control of mechanical forces and resistances; e.g. utilization of kinetic energy
.773	Workshops for cutting processes. Turning shops. Drilling shops. Cutting shops. <i>Subdivide like 621.9 Machine tools</i>		
.774	Pipe manufacture	621.81	Machine elements. <i>Classify here comprehensive studies. The elements for special machinery are designated by means of the subdivisions 621-1/-8. See also 531.8 Theory of machines. Technical mechanics</i>
.1	Manufacture of cast pipes		
.2	Manufacture of soldered and brazed pipes		
.3	Manufacture of seamless pipes		
.775	Manufacture of spherical objects, balls, shot, powders	621.82/.85	Transmission parts
.776	Manufacture of hollow objects other than pipes by extrusion	621.82	Shafting. Journals. Bearings. Couplings, etc.
.777	Treatment of sheet metal and pipes for special purposes	.822	Bearings. Axle boxes. Bushings
.778	Wire drawing and processing	.1	Generalities
621.78	Heat treatment of metals. Hardening. Tempering. Annealing. Cementation	.2	Collar bearings. Step bearings. Thrust bearings
.782	General arrangements for heat treatment	.3	Adjustable bearings
.783	Furnaces for heat treatment	.5	Sliding bearings
.784	Baths for hardening, tempering	.6	Rolling bearings in general
.785	Processes of heat treatment. Annealing. Hardening. Tempering. Control of cooling	.7	Ball bearings
.787	Hardening by mechanical action	.8	Roller bearings
.788	Electrical and magnetic hardening	.9	Other bearings (Axle boxes)
.789	Structural modification by other processes	.824	Axle trees. Driving shafts
621.79	Various workshops and processes for treatment of metals	.825	Couplings
.02	Preliminary treatment. Cleaning, etc. Dressing by sand blast. Chemical pickling	.827	Cranks. Eccentrics. Connecting rods
.791	Soldering. Welding. Cutting	.828	Hinges. Levers
.052	Welding	621.83	Gears. Racks. Cams. Slidebars
.054	Cutting	.831	Theory of gears
.056	Seam welding	.833	Gearings. Toothed wheels. Pinions
.2	Oxidation prevention	.835	Cams. Ratchets. Racks
.791.3	Soldering. Brazing	.836	Guides. Slideways
.5	Autogenous welding and cutting	.837	Eccentric gearing. Inclined planes. Wedge gearing
.6	Thermit welding	.838	Starting clutches. Ratchets. Gear engagement and disengagement. Locking mechanisms
.7	Electrical welding and cutting	.839	Friction drive mechanisms. Electromagnetic friction drive devices
.8	Combined processes. Arc atomic welding	621.85	Flexible transmission
.9	Other welding processes	.852	Belting
.793	Metal coating. Metallization	.854	Cable transmission
.794	Chemical surface treatment of metals. Mordanting, coloration, etc.	.855	Chain transmission
.795	Finishing. Various surface processes	621.86/.87	Hoisting and conveying machinery
.796	Depot, silo and warehouse equipment	621.86	Means of lifting and transporting other than cranes and lifts
.797	Repair shops	.861	Pulley blocks. Tackle
.798	Packing and despatch equipment	.863	Lifting winches
.1	Containers. Cases. Casks, etc.	.864	Capstans. Windlasses
.2	Packing materials. Fastenings	.865	Implements for lifting by hand. Levers. Crowbars
.3	Filling devices	.866	Jacks. Winches. Gins.
.4	Packing processes and machinery	.867	Conveyors for continuous delivery
.5	Fastening machinery. Fastening processes	.1	Rake conveyors
.6	Labelling	.2	Belt conveyors
.7	Sealing. Branding, etc.	.3	Bucket conveyors
.8	Cleaning the packing materials	.4	Worm conveyors
.83	Sack cleaning machinery	.5	Chutes. Vibrating and other slide ways
621.8	MACHINE PARTS. HOISTING AND CONVEYING MACHINERY. POWER TRANSMISSION. MEANS OF ATTACHMENT. LUBRICATION	.6	Roller conveyors
.0	<i>Special Auxiliary Numbers</i>	.8	Pneumatic conveyance: tubes, etc.
.02	Transmission of motion in general; e.g. conversion of rectilinear into rotary motion and vice versa	.9	Centrifugal conveyors
		.869	Various loading and unloading devices
		621.87	Hoisting machinery
		.873	Cranes in general
		.874	Travelling cranes
		.875	Load bridges
		.876	Lifts. Escalators
		.877	Mobile cable cranes
		.879	Spades. Dredgers. Excavators

621.88	Means of attachment. Fastenings	621.916	Universal milling machines
.0	<i>Special Auxiliary Numbers</i>	.917	Special milling machines
.087	Tools for fitting means of attachment	.918	Files. Filing machines
.088	Tools for removal of means of attachment	.919	Reaming machines. Broaching machines
.881	Bench vices. Spanners	621.92	Polishing, grinding, sharpening, crushing, separating, sifting, pounding and mixing machines
.882	Screws. Nuts. Washers. Bolts		
.082	System of screw threads. <i>Special Auxiliary Numbers</i>	.921	Grinding and polishing materials
.1	Threads in general. Dimensions	.922	Whetstones and polishing discs
.2	Bolts and screws	.923	Polishing and smoothing processes
.3	Nuts	.924	Grinding and polishing machinery
.4	Washers	.926	Machines for crushing hard substances
.5	Fastening for bolts and screws	.927	Grinding up of soft materials. Grinding devices
.6	Bolts		
.883	Spanners. Turnscrews. Screwdrivers	.928	Sifting and sorting devices. Centrifuges.
.884	Rivets. Riveting tools. Riveting processes	.8	Separation by floating
.885	Hooks. Eyelets. Suspension fixings.	.929	Magnetic separation
	Clamps. Eyebolts		Mixing and kneading devices
.886	Pins, cotters, etc.	621.93	Saws. Cutting machines
.1	Pins. Sprigs	.931	Sawing in general
.2	Nails	.932	Hand saws
.3	Clamps	.933	Longitudinal machine saws
.4	Pins. Spindles	.934	Circular saws. Drum saws
.5	Split pins	.935	Band saws
.6	Cotter pins. Keeper pins	.937	Cutters. Cutting tools
.7	Dowels. Plugs		
.8	Clamping wedges	621.94	Lathes. Rolling mills. Drawing benches. Machines for wire and tube drawing
.887	Rings		
.888	Hinges. Springs used as means of attachment	.941	Turning lathes
.2	Hinges	.944	Metal rolling and rolling mills
.4	Springs used as means of attachment	.946	Installations for wire drawing
.889.2	Cable stretchers. Wire stretchers	.947	Apparatus for tube drawing
.8	Bayonet connection		
621.89	Lubrication	621.95	Drilling machines. Drills
.892	Lubricants	.951	Generalities. Hand-drills. Reamers
.893	Anti-friction devices in general	.952	Drilling machines
.894	Devices to increase friction. Anti-lubrication devices	.953	Portable drilling machines
.896	Lubricating apparatus	.954	Milling and drilling machines
.899	Reclamation of oils	.957	Centring devices. Centre punches
		.958	Special drilling machines
621.9	MACHINE TOOLS. TOOLS. OPERATIONS, IN PARTICULAR FOR METAL AND WOOD	621.96	Tools and machines for punching, blanking, striking, splitting, cleaving, stamping, stapling, etc.
—4	External form of products and of the surfaces to be treated. <i>Special Auxiliary Numbers. For Subdivisions see 621-4</i>	.961	Blanking. Cutting out. Punching
.0	<i>Special Analytical Auxiliary Numbers</i>	.962	Blanking presses for working by hand
.01	Theory. Operation	.963	Mechanical stamping presses
.016	Treatment of the surface	.964	Punching machines. Stapling machines
.02	Special tools	.965	Shearing in general
.03	Nature of substances worked on	.966	Hand shears
.09	Combination of tools and machine tools. Universal machine tools	.967	Power shears
	<i>Tools which can be mounted on Machine Tools are classed under 621.9.091/099. Subdivide like 621.91/99</i>	.968	Splitting and slitting machines. Axes
		.969	Machines for breaking up scrap metal. Ingot breakers
621.91	Planes. Planing, milling, slotting and filing machines. Reamers. Files	621.97	Tools and machines for beating, hammering, forging, compressing, coining, etc.
.07	Shaping by shaving or filing in general	.07	Plastic shaping in general. <i>Special Auxiliary Numbers</i>
.911	Planes in general. Hand planes	.971	Hammers in general
.912	Planing machines	.972	Hand hammers
.913	Slotting and mortising machines	.974	Mechanical hammers
.914	Milling in general. Milling tools	.975	Forging presses
.915	Milling machines in general	.976	Riveting machines
		.979	Presses for compressing, shaping, squeezing, etc. Moulding machines
		621.98	Machines for bending, pleating, beading, flanging, straightening, etc.

621.981	Bending, pleating, beading and flanging machines	622.346.1	Chromium
.982	Straightening machines. Planishing machines	.348	Cobalt and nickel
.983	Tools for cold pressing. Drawing and draw press shaping by cold process. Swaging	.349	Platinum, aluminium, arsenic, antimony, bismuth, mercury, radium, rare earths
.984	Hot presses for large pieces	.2	Bauxite
.986	Cold shaping of cylindrical or spherical pieces of work by rolling, hammering, pressing, etc.	.35	Quarrying for rock and building materials
		.36	Mining and quarrying for various inorganic economic minerals and earths. <i>Subdivide like 553.6</i>
621.99	Screw cutting and tapping. Manufacture of screws and nuts	.37	Mining for precious stones. <i>Subdivide by means of sign of Relation : and subdivisions of 549</i>
.991	Generalities. Various operations	622.4	Accessory services in genera
.992	Screw cutting	.41/.46	Ventilation
.993	Tapping and cutting the threads of nuts	.41	Nature of gas encountered
		.42	Natural ventilation
622	MINING	.43/.46	Artificial ventilation
.0	<i>Special Auxiliary Numbers</i>	.43	Ventilation by fires and exhausters
.01	Theory. Classification of mines, pits and quarries	.44	Ventilation by blowers and fans
.03	Subdivisions indicating the character of the beds	.45	Ventilation conduits: shafts, galleries, doors, flaps
.04	Filling. Excavation	.46	Various ventilation devices
622.1	Investigation and prospecting; e.g. 622.1:526 Mining topography and cartography	.47	Lighting of mines
.19	Prospecting	.48	Other mining problems. Heating of shafts
622.2	Mining processes and methods of working	622.5	Flow and drainage of mine water
.22	Layout of the field. Concession area. Working plans. Opening up. Preparation	622.6	Mining transport. Hoisting and haulage
.23	Excavation by hand, by machine. Drilling. Excavation by explosives	.61	Transport at the working face
.24	Shafts. Plant and materials	.62	Underground roads and railways
.248	Mechanical breakdowns. Tool salvage. Catchers	.625	Underground mining railways. <i>Subdivide like 625; e.g. 622.625.28 Mine locomotives</i>
.25	Shaft sinking	.64	Continuous transport by horizontal or inclined ropeways
.26	Mine galleries	.65	Transport and haulage by men and animals
.27	Methods of working. Stopping. <i>For construction of pumps see 621.65/.69</i>	.66	Transport machinery
.28	Timbering. Lining of shafts and galleries	.67	Vertical conveyance. Hoisting apparatus. Ladders
.29	Various accessories of mines and shafts	.69	Surface transport. <i>See also 621.86/.87; 625; 629.1</i>
2.3	Special kinds of mining	.698	Transport by pipelines
.32	Exploitation of liquid and gaseous minerals	622.7	Dressing of mining products
.322	Exploitation of mineral sources	.0	<i>Special Auxiliary Numbers</i>
.323	Exploitation of mineral oil sources	.05	Treatment of the mineral products
.324	Exploitation of gaseous minerals	.06	Treatment of the separating medium
.33	Exploitation of organic minerals	.07	Treatment of the separated products
.331	Peat	.08	Main operations. Theory
.332	Lignite	.72	Sorting by hand. Hand picking
.334	Bituminous coal	.73	Crushing and grinding
.335	Anthracite	.74	Screening. Classification by screening
.336	Graphite	.75/.76	Separation with the aid of liquids and gases
.337	Bitumen. Asphalt. Oil shales. Mineral waxes. Ozokerite	.752	Sedimentation. Classifiers with weak current of water
.339	Other organic minerals. Amber	.753	Classifiers with rising liquid current. Current apparatus
.34	Mining for metals	.755	Apparatus and processes with a rotary current of water
.341	Iron and manganese	.762	Separation with a pulsating current of water
.342	Gold and silver	.763	Apparatus and processes with an essentially horizontal current of water. Chutes. Rheo washers
.343	Copper	.764	Tables
.344	Lead, zinc, thallium and cadmium	.765	Flotation
.345	Tin	.766	Separation by means of heavy liquids
.346	Chromium, molybdenum, tungsten, vanadium, niobium, tantalum and germanium	.767	Pneumatic separation
		.77	Various processes and apparatus
		.771	Mechanical processes

622.775	Processes of solution, of extraction by solvents. <i>See also</i> 669	623.42	Guns, construction, method of loading.
.776	Amalgamation	.421	Projectile throwers
.777	Electrical separation. <i>See also</i> 621.359	.422	Guns grouped by form and construction
.778	Magnetic separation	.1	Guns grouped by method of loading
.79	Various auxiliary operations and accessories	.2	Muzzle loading
.791	Chemical treatment. Disaggregation	.3	Breech loading
.792	Heat treatment. Roasting. Calcination.	.4/.5	Multiple barrel guns
	Decrepitation		Heavy machine guns. Automatic guns.
.793	Treatment of the liquid and of the residual liquids	.423	<i>See also</i> 623.442.4
.794	Elimination of the excess water. Drying.	.428	Gun barrel construction
	Separation of dust	.1/.3	Projectile throwers without explosives
.795	Mixing	.4	Spring guns. Air guns. <i>See also</i>
.798	Briquetting of minerals. <i>See also</i> 662.8	.6	623.442.8 <i>Air rifles</i>
622.8	Risks. Accidents. Safety measures	.8	Grenade throwers
.81	Firedamp explosions. Mine explosions	.43	Mine throwers
.82	Mine fires		Aircraft bomb release gear. Bomb racks
.83	Rock pressure. Geodynamic phenomena	.438	Gun carriages, mountings. Armoured
.84	Flooding		fighting vehicles
.85	Damage to vegetation and to animals	.2	Armoured fighting vehicles. Armoured
.86	Accidents. Rescue	.3	trains
.88	Regulations for preventing damage	.5	Armoured cars
		.44	Tanks
623	MILITARY AND NAVAL ENGINEERING AND TECHNOLOGY. <i>See also</i> 355/359		Armoured trains
623-2/-8	<i>Special Auxiliary Numbers</i>		Small arms. Portable arms. Means of
	<i>Subdivide</i> 623-2, 623-5, 623-7 and	.441	protection
	623-8 like 621-2, 621-5, 621-7 and	.442	Bows, crossbows. Early firearms
	621-8 respectively. 623-4 subdivide like	.1	Rifles, carbines, muskets
	623.4	.2	Muzzle loading
623.1	Fortifications. Fortresses	.3	Breech loading
623.2/.3	Field fortifications. Trenches. Mines	.4	Magazine rifles
.2	Trenches. Mining	.5	Automatic rifles. Light machine guns
.26	Military mines. Land mines	.6	Anti-tank rifles, etc.
.3	Defence of trenches	.8	Sporting guns
.38	Various obstacles. Barbed wire, traps, etc.	.443	Spring, air and electric rifles and pistols
.39	Flooding	.444	Pistols and revolvers
623.4	Ordnance. Guns and machine guns. Portable arms. Ammunition	.1	Side arms. Shafted arms
.0	<i>Auxiliary numbers for special parts</i>	.2	Halberts, pikes, partisans, etc.
.03	Cartridge magazines	.3	Swords
.04	Bolts. Breech blocks	.4	Bayonets
.05	Sights and sighting mechanisms	.6	Lances
.06	Trigger devices. Ejectors and extractors	.445	Dirks, daggers
.41	Artillery	.1	Means of protection
.411	Early types. Bombards, culverins. Cata-	.2	Body armour
	pulpts	.4	Helmets
.412	Weapons accompanying infantry	.5	Individual protection against gas. Gas
.2	Anti-tank guns	.446	masks
.3	Light howitzers. (Below 105 mm.)	.45	Shelters
.4	Trench weapons, trench mortars, etc.		Primitive weapons. Cudgels. Bows and
	<i>See also</i> 623.428 <i>Projectile throwers</i>	.451	arrows
.413	Light artillery. (Up to 4 in. or 105 mm.)	.452	Ammunition. Pyrotechnic devices. War
.2	Light field. Horse	.453	gases
.4	Mountain	.454	Projectiles. Shells. Bombs
.415	Medium, heavy field artillery. (Up to	.9	Explosive charges
	6 in. or 155 mm.)	.455	Artillery cartridges
.3	Howitzers. (Above 105 mm.)	.459	Fuses. Detonators. Pyrotechnic devices.
.416	Heavy and super heavy artillery	.46	Incendiary devices
.2	Siege. Fortress	.455	Atom bombs
.5	Railway	.458	Small arms ammunition
.6	Long range	.459	Poisons. Bacteriological warfare
.417	Naval and coast defence artillery	.46	War gases. Chemical warfare
.418	Aircraft, anti-aircraft artillery	.47	Artillery and other instruments. Tools.
.2	Anti-aircraft	.48	<i>Subdivide by sign of Relation : and number</i>
.4	Aircraft		<i>of instrument concerned. E.g.</i> 623.46:535
		623.5	<i>Artillery optical instruments; 623.45:</i>
		.52/.53	<i>535.88 Military searchlights</i>
		.54	Manufacture of ordnance equipment
			Care and maintenance. Testing. Accidents
			Gunnery
			Interior ballistics. Effects of powders.
			Resistance
			Exterior ballistics

623.55	Gun laying. Range finding
.0	<i>Special Auxiliary Numbers</i>
.022	Artillery meteorology
.023	Artillery survey
.024	Observation. Ranging
.025	Fire control
.551/.553	Land service
.554	Naval
.555	Small arms
.558	Anti-aircraft
623.6	Military engineering operations. Bridges.
	Communications. <i>Subdivide by sign of Relation : and divisions of 624/627;</i>
	621.39; 654; 656
.66	Protection of works
.67	Obstructions
.68	Demolitions
623.7	Military topography, aviation and camouflage
.71	Military topography
.74	Military aviation. <i>See also 629.13</i>
.741/.743	Balloons. Airships
.746	Airplanes
.2	Reconnaissance
.3	Fighter
.4	Fighter-bombers. Bombers
.748	Balloon barrages
.77	Camouflage, etc.
.773/.774	Camouflage
.775	Artificial fog. Smoke screens
.776	Black-out
.777	Dummy constructions
623.8/.9	NAVAL ENGINEERING
	<i>Note: By use of the hyphen the divisions of 623.9 can be used as analytical subdivisions of 623.8. E.g. 623.827-94 Gun installations in submarines. The special auxiliary numbers of 629.12 may be used here</i>
623.8	Naval construction
.81	Naval yards and docks
.82	War vessels
.821	Battleships
.822	Cruisers
.823	Destroyers. Submarine chasers
.824	Gunboats. Monitors
.825	Torpedo boats
.826	Sloops. Scouts
.827	Submarines
.828	Transports. Hospital ships
.829	Minelayers and sweepers. Small craft.
	River gunboats
.83	The hull and accessories
.84	Masts and rigging for war vessels
.85	Machinery for war vessels. <i>See also</i>
	621.12; 621.18; 629.12
.9	Protection and armament of war vessels
.91	Armour and armour plating
.92	Watertight compartments
.93	External protection. Torpedo nets
.94	Gun installations, turrets, etc.
.95	Underwater defences. Mines. Mine-sweeping
.96	Torpedoes. Torpedo tubes
.97	Destructive devices used by the navy.
	Fireships. Depth charges. Submarine nets, etc.
.98	Application of science to naval matters.
	Indicate by sign of relation : and the number of the particular science. E.g.
	623.98:621.395 Telephones in the navy

624	CIVIL ENGINEERING
624.0	<i>Special Auxiliary Numbers. See also 69.02/.07</i>
	<i>Note: The auxiliary numbers .01 should be restricted for internal use</i>
624.01	Classification of construction works according to building material
.011	Structures of organic material
.1	Timber structures
.011.2	Timber structures supported by other material
.012	Masonry and ceramic structures
.1	Natural stone
.2	Brick
.3	Cement and concrete
.4	Reinforced concrete
.5	Jointing materials
.6	Structural glass
.8	Loam, earth, ceramic materials
.013	Metal structures on masonry foundations
.2	Steel with masonry foundation
.014	All-metal structures
.2	Steel
.25	Welded
.27	Tubular structures
.015	Structures in a single material
.016	Various structures in mixed materials
.5	Concrete framed construction
.7	Steel framed construction
624.02	Parts of structures
.022	Walls
.31	External walls
.33	Wall projections. Cornices. Gables.
	Balconies. Bays
.5	Partition walls
.6	Cavity walls
.9	Wall details
.99	Wall openings
.023	Vaults. Arches. Framework. Roof and other trusses. Bracings. Bearings
.6	Vaults and arches
.8	Roof trusses. Details
.81	Parts of timber roof trusses
.82	Parts of roof trusses of concrete
.83	Parts of roof trusses of steel
.85	Statics of trusses
.86	Plane construction
.87	Three-dimensional construction
.88	Bracing. Longitudinal bracing.
	Transverse bracing
.93	Types of beams, girders, joists
.94	Bearings. Hinges. Anchorages
.024	Roofs. <i>See also 624.023.81/.85; 624.91; 695</i>
.2	Pitched roofs
.3	Flat roofs
.4	Dome shaped and vaulted roofs
.9	Parts of roofs. Roof openings
.025	Floorings. Floors. Ceilings
.3	Floorings
.4	Suspended floors and ceilings
.026	Stairs. Lifts. <i>See also 621.876</i>
.027	Chimneys. Ventilation shafts
.028	Doors, windows, gates and accessories
.1	Doors, gates
.2	Windows
.8	Fencing
.029	Various supports fixed to structures
	Flagstuffs
624.03	Position and layout of structures
.032	Dimensions

624.033	Dismountable, transportable, temporary structures	.6	Hinges
.034	Structures upon, in or by water	.8	Stiffeners
.035	Structures in the mountains		
.036	Layout and basic form of building works. Straight, skew, curved, etc.	624.1	EARTHWORK. FOUNDATIONS. SUB-STRUCTURE. TUNNELLING
624.04	Examination and calculation of parts of structures	624.11	Earthwork and foundations in general
.041	Choice of general design. Statics of structures in general	624.13	Earthwork
.042	Calculation of load. Dead and live loads	.131	Soil mechanics. Structural soil technology
.043	Determination of dimensions. Condition of stress	.2	Classification of soils
.044	Computation of deformations. Measuring deformation	.3	Soil examination
.045	Computation of weights	.4	Properties of the soil
.046	Carrying capacity. Factor of safety	.5	Statics. Dynamics
624.05	Construction and methods of construction	.6	Ground water
.051	Selection of site. Examination of the soil. <i>See also</i> 624.131	.132	Soil displacement in general
.052	Construction of approaches to bridges, tunnels, etc.	.133	Excavation
.053	Selection of method of construction. Determination of main dimensions	.134	Cuttings. Trenches, etc.
.054	Determination of clearance	.135	Fills. Levelling
.055	Preparation of the building site. Excavation. Transport	.136	Embankments. Cofferdams
.056	Preparation of the structural parts	.137	Securing of earthworks. Berms. Piles
.057	Erection. Assembly. Scaffolding	.138	Soil stabilization
.5	Shuttering	624.15	Foundations
.6	Scaffolding. Trestles and ladders	.151	Generalities. Foundations in the dry
.7	Vertical transport	.152	Earthwork and excavation for foundations
.8	Horizontal transport	.153	Footings. Beam and arch foundations, etc.
.058	Site tests. Site experiments	.154	Pile foundations in general
.059	Maintenance, damage, repair. Strengthening, transferring, demolition	.155	Piles. Pile driving
.1	Maintenance	.156	Grillage foundation. Special types of foundation in the dry
.22	Damage	.157	Foundations under water
	<i>E.g. 624.059.22:623.68 War damage</i>	.1	Cofferdam
.25	Repair. Reconstruction	.2	Open caissons
624.07	Structural elements in general	.3	Pneumatic caissons
.071	Elements for taking only an axial stress. Ropes. Rods	.4	Foundations by freezing
.072	Elements for taking bi-axial stress	.5	Foundations by compressed air
.2	Elements under bending stress. Girders. Beams. Various forms of support	.6	Shaft (well) foundations
.3	Elements under bending and axial stress (other than buckling). Arch construction	.7	Steel tubular foundations
.33	Frames	.8	Direct foundations under water
.4	Curved members	.159	Other problems concerning earthwork
.073	Slabs	.1	Special type of foundations, e.g. earthquake resisting
.074	Tridimensional structures	.3	Protection against underwashing. Stone filled facies
.1	Bridges	.4	Strengthening of existing foundations. Underpinning
.2	Domes	624.16	Abutments and piers
.3	Skew arches	.164	Abutments
.5	Trussless roofs	.166	Piers
.6	Piers. Spires	624.18	Special protective works and improvement in mountainous country
.7	Special structures (containers, etc.)	624.19	Tunnelling
.075	Elements whose condition of stress must be checked for stability	.192	Mountain tunnels
.2	Under buckling stress. Columns	.193	Underground tunnels
.3	Lateral stiffness	.194	Underwater tunnels
.4	Buckling of slabs	.196	Other tunnels. Culverts, siphon tunnels, canal tunnels
.078	Calculation of connections of structural parts, bearings, hinges and stiffeners	624.2/.8	BRIDGE CONSTRUCTION
.1	Rivet connection	624.21	Bridges in general.
.2	Bolted joints		<i>E.g. 624.21:623.6 Military bridges</i>
.3	Welded joints		:625.1 <i>Railway bridges</i>
			:625.745.1 <i>Road bridges</i>
			:625.745.11 <i>Foot bridges</i>
			:626.1 <i>Canal bridges</i>
		624.21.01/.07	Bridge parts. Calculations, etc. <i>Special Auxiliary Numbers. Subdivide like</i>
			624.01/.07

64.21.09	Girders. Bearings. Deck. Footway. Parapets	625.155	Transfer tables. Traverses
.27	Girder bridges	.156	Buffer stops. Blocks. Sand-drags.
.28	Trussed girder bridges	.16	Scotchblocks
.3	Trussed bridges. Cantilever bridges	.17	Accessory equipment. Level crossings. Protection against snow, etc.
.4	Tubular bridges of steel or reinforced concrete	.18	Maintenance and renewal. Care of the track
.5	Suspension bridges	.18	Location and number of tracks. Profile. Character of the track (straight, curved, etc.)
.6	Arch bridges		
.61	Timber arch bridges		
.62	Masonry arch bridges		
.621	of natural stone	625.2	Railway rolling stock
.624	of reinforced concrete	.01	Parts of vehicles. <i>Special Auxiliary Numbers. Subdivide as 629.11.01</i>
.63/.67	Iron and steel bridges	625.22	Cross section of vehicles
.68	Hinged arch bridges	.23	Passenger coaches
.69	Other arch bridges	.24	Freight wagons. Special trucks
.7	Bridges of mixed or special construction	.249	Trolleys
.74	Bridges with elevated roadway and lifts	.26	Repair shops for carriages and wagons
.8	Movable bridges	.27	Accessory equipment. Loading and transport devices
.82	Drawbridges and bascule bridges	.28	Traction. <i>See also 621.13; 621.33; 621.431.72; 622.65</i>
.83	Swing bridges	.282	Locomotives
.84	Lift bridges	.285	Rail motor cars. Motor train sets.
.85	Rolling bridges		Articulated motor trains
.86	Ferrybridges	.286	Motor buses on rails
.87	Boat, raft and pontoon bridges		
624.9	STRUCTURAL ENGINEERING		
.91	Roof trusses. Large span roof construction. <i>See also 624.023.8</i>	625.3/.5	Special types of railways
.92	Structures of masonry, concrete or reinforced concrete	.31	Narrow gauge mountain railways
.93	Structures of several materials (timber, steel)	.311	Gauge from 1000 to 1435 mm.
.94	Structures of steel only. One-storied structures for industrial and other purposes	.312	Gauge under 1000 mm. Decauville railways
.95	Various steel structures. Containers for goods in bulk	.32	Adhesion railways for steep gradients
.97	Towers. Masts	.33	Rack railways
625	TECHNIQUE OF TRAFFIC ROUTES ON LAND. Railways and tramways. Roads and streets	.35	Broad gauge railways
.0	Generalities. <i>Special Auxiliary Numbers</i>	.36	Moving platforms. <i>See also 621.876</i>
.03	Forces and movements occurring in the contact between vehicle and track. Adhesion stresses developing from them. Wear and tear	.37	Lifts. Escalators
.04	Various influences upon roads and tracks	.39	Remote controlled railways
.06	Binding materials and their use	625.4	Other railways of special type
.07	Mineral construction materials	.41	Elevated railways and underground railways
.08	Machinery and equipment for road construction. Finishing. Alteration	.42	Elevated railways
		.43	Underground railways
		.44	Telephers, suspended railways and cableways
625.1/.6	RAILWAYS AND TRAMWAYS	625.5	Monorailways
625.1	Railways in general. Railway construction	625.6	Cable traction railways. Funiculars
.11	Railway surveying and location		
.12	Formation. Foundations. Drainage	625.7	Light railways. Tramways
.14	Track	.71	Light railways. Inter-urban railways
.141	Ballast	.711	Tramways. <i>To classify special studies concerning tramways combine 625.62 by means of sign of Relation : with the subdivisions of 625.1/.2</i>
.142	Sleepers	.1	
.143	Rails. Rail fastening	.2	
.144	Track laying	.3	
.145	Track aligning equipment	.4	
.15	Station and track lay-out. Junctions	.5	
.151	Turnouts. Switches	.6	
.152	Rail crossings	.7	
.153	Double slip roads	.712	
.154	Turntables. Sector tables	.714	
		.72	
			ROADS
			Roads in general. Road construction
			Kinds of thoroughfare classified according to their importance and purpose
			Cross-country roads
			Main roads
			Secondary roads. Lanes
			Special motor roads
			Bicycle tracks
			Footpaths. Bridle-paths
			Pavements for pedestrians
			Riding tracks
			Urban roads. Streets
			Quays. Canal roads
			Surveying and plotting

625.73	Details of roads. Dimensions. Alignment	626.8	Agricultural hydraulics. Irrigation. Drainage. Fishery works. E.g. 626.8;631.4 <i>Soil science and soil research related to agriculture</i>
.731	Foundation. Formation		Significance of water for agriculture
.732	Cross sections	.80	Irrigation
.733	Raised footpaths along main roads	.81/.85	General theory. Water supply
.734	Pavements. Platforms. Refuges	.81	Irrigation ditches and canals
.735	Ditches	.82	Pumping installations
.736	Slopes	.83	Methods of irrigation. Permeation.
.739	Forks. Cross roads. Traffic centres	.84	Spraying, etc.
.74	Method of construction. Accessory works	.85	Irrigation for different soils and crops
.741	Road construction in general	.86	Drainage
.745	Accessory works. Water diversion.	.86.04	Preliminary draining
	Drains. Gullies. Signposts. Milestones	.861	Drainage by open canals
.746	Other accessory works with reference to use of road by traffic. Devices for traffic regulation. Traffic signs	.862	Drainage by closed canals. Mole drainage
.748	Various equipment not specifically concerning traffic. Kiosks. Public conveniences. Seats, etc.	.87	Reclamation of marshes, etc.: hydraulic engineering point of view
.75	Treatment of road surface. Oiling.	.88	Special hydraulic works for fish breeding
	Tarring. Asphaltting	626.9	Maritime canals. Ship-canal
.76	Maintenance and cleansing of roads and highways. Care of the highway		
.77	Roadside plantation	627	NATURAL WATERCOURSES, RIVERS, PORTS AND ROADSTEADS
.78	Services under the road. Pipe lines.		
.79	Cables. Drainage	627.1	Natural watercourses
	Projecting structures	.11	Origin of the watercourse. Basins
625.8	Paving of roads and highways	.12	Sources
.81	Primitive roads. Sand, gravel roads	.13	Watercourses in general. Measurement.
.82	Stone paving. Brick paving	.14	Calculation of fall. Current velocity
.83	Wood paving. Cork paving	.15	Current acceleration. Mountain streams
.84	Concrete roads	.16	Rivers and streams
.85	Asphalt paving	.17	River mouths. Improvement works
.86	Crushed stone roads. Gravel roads	.18	Lakes
.87	Various road pavings. Metal. Glass, etc.		Banks
.878	Rubber paving	627.2	Ports and roadsteads. Coast works.
.88	Footpaths. Kerbs		Marine works
.89	Other pavement work	.21	Different kinds of ports according to situation and purpose
625.9	OTHER MEANS OF LAND TRANSPORT	.22	General conditions for port design.
.91	Railways for ships	.23	Hydraulic and geological conditions
.92	Ropeways. Aerial ropeways	.24	Parts of ports. Main parts. Roadsteads.
		.26	Mouth. Breakwaters. Wet dock
			Execution of marine works
626/627	HYDRAULIC ENGINEERING		Deterioration of marine works. Corrosion. Damage by marine animals, etc.
626	GENERAL HYDRAULIC ENGINEERING. INLAND NAVIGATION. WATERWAYS	627.3	Port equipment. Installations
.0	<i>Special Auxiliary Numbers</i>	.31	Floating docks
.01	Scientific bases of hydraulic engineering	.32	Docks and warehouses
.02	Underwater work in general. Divers' work	.33	Quays and quay walls
.025	Diving dress	.34	Apparatus for mooring ships. Bollards.
626.1/.7	Navigation waterways	.35	Mooring buoys. Means of landing
626.1	Shipping canals. Canalized rivers	.36	Accessory equipment. Quay railways.
.12	Plan		Cranes. Floating pumps. Floating fire engines
.13	Cross section	.37	Arrangements for construction and repair of ships in so far as they affect port installations. <i>See also</i> 627.32; 629.128
.14	Maintenance		Arrangements for temporary closing of port. Floating booms
.15	Planting of banks and dykes	627.4	Improvement of rivers for navigation. Protective work for banks
.17	Bank protection and reinforcement	.41	Plantation. Reinforcement with stone, pebbles, fascines
.18	Filling in canals	.42	Improvement of watercourses
.2	Feeding. Water supply for canals	.43	River improvement by means of damming
.3	Form and cross section	.44	Sluices. Narrows
.4	Locks. <i>See also</i> 627.45		
.5	Lifting devices for ships		
.7	Traction by river and canal. Oars. Towing		

17.45	Improvement by means of locks. <i>See also</i> 626.4	628.2	Sewers
.47	Diversion of watercourses	.21	Sewer systems
17.5	Other works for the protection and improvement of watercourses. Dikes. Polders. Draining. Land reclamation	.22	Calculation for network. Shape and size of sewers
.51	Protection against flooding. Bursting of dikes	.23	Ventilation of sewers
.52	Protection against wind and waves. Holding back the sea. Stabilization of sand hills	.24	Construction of sewers
.53	Draining. Polders	.25	Accessory works. Catch basins. Sediment collection. Manholes. Overflows
.532	Draining	.26	Crossing of water courses. Siphons
.533	Warping. Polders	.27	Obstruction and bursting of sewers
.536	Depoldering	.28	Cleaning of sewers
27.6	Outworks of tidal ports and harbours in deep water	.29	Discharge of sewer water. Pumping stations
27.7	Maintenance of watercourses and ports. Dredging	628.3	Sewage water. Purification. Lixiviation
.73	Measures against ice	.31	Composition and volume
.74	Dredging	.32	Deodorization and disinfection of liquids and solids
.75	Port maintenance	.33	Purification by physical and mechanical processes
.76	Refloating of wrecks and ships. <i>See also</i> 629.129	.34	Purification by chemical or mechanical chemical processes
.78	Floating equipment for port works	.35	Purification by biological or bacteriological processes. Septic tanks
527.8	Dams. Great reservoirs and barrage dams. Water engineering works for power stations	.36	Purification by soil filtration. Irrigation
.81	Damming up of valleys. Large reservoirs. Classification according to object	.37	Utilization in agriculture
.82	Barrage dams	.38	Sewage manures
.83	Draw off from barrage dams and barrage basins	.39	Discharge of sewage water into natural waters
.84/.88	Structures for hydraulic power installations	628.4	Town hygiene. Town sanitation. Public sanitary arrangements
.84	Canals and conduits	.41	Privies. Trench latrines
.85	Water engineering structures for power plant	.42	Bucket closets
.86	Discharge of used water	.43	Earth closet systems
.88	Various devices for the prevention of obstructions by ice, floating objects, silt, etc.	.44	Solid refuse. Cinders. Household refuse. Refuse carts. Dustbins. Litter bins, etc.
.89	Other questions. Bursting of reservoirs. Repair	.45	Public lavatories. Urinals. <i>See also</i> 628.6
627.9	Coastal approach works. Lighting. Pilotage. Rescue. Signals. <i>See also</i> 654	.49	Processing of refuse. Sorting. Incineration
.91	Buoys. Beacons	628.5	Industrial sanitation. <i>See also</i> 613.6
.92	Illumination. Lighthouses. Light beacons and buoys. Light ships	.51	Generalities
.93	Signalling. Semaphores	.511	Dust. Protection against dust
.94	Pilotage and towing services	.512	Protection against noxious gases and fumes
.95	Marine rescue and salvage. <i>See also</i> 614.81	.513	Protection against bacteria
628	SANITARY TECHNOLOGY AND ENGINEERING. SEWERAGE. HEATING. ILLUMINATION. <i>See also</i> 613/614	.514	Protection against steam
628.1	Water supply for towns and villages	.515	Protection against noxious liquids, against contamination of water
.11	Source of supply. Collection	.516	Protection against contamination of soil
.12	Pumping stations	.517	Protection against noise and vibrations
.13	Reservoirs. Water towers	.2	Protection against noise
.14	Water conveyance. Conduits. Aqueducts	.518	Protection against optical, electrical and other nuisances
.15	Distribution systems. Network	.52	Special measures against noxious exhalations, smells
.16	Water purification. <i>See also</i> 663.6	.53	Smoke nuisance and abatement
.17	Use of water in relation to purpose	.54	Treatment of liquid and solid factory refuse
.18	Rural water supply	628.6	Domestic sanitary installations. Water closets. Sinks. Baths. <i>See also</i> 628.4; 645.68
		628.8	Heating. Ventilation. Air conditioning. <i>See also</i> 644; 697
		.81	Heating
		.82	Cooling
		.83	Ventilation
		.84	Air conditioning. Regulation of humidity
		628.9	ILLUMINATION. <i>See also</i> 644.3; 683.8
		.92	Natural lighting
		.93	Artificial illumination in general
		.96	Methods of illumination. Direct and indirect. Semi-direct. Projection. Flood-lighting

628.97	Illumination for different purposes	629.111/.118	Kinds of vehicles
.971	External illumination. Street lighting	.111	Primitive and small means of transport.
.972	Interior illumination		Baskets. Trucks
.973	Aesthetic illumination. Theatre, shop and museum illumination	.3	Handcarts. Wheelbarrows
.974	Illumination for advertising. Sky signs	.4	Perambulators
.975	Illumination for signalling	.7	Sledges
.976	Illumination for work benches and desks	.112	Vehicles drawn by animals
.978	Illumination for special purposes. Safety illumination. Reserve illumination	.113	Motor vehicles. Generalities. Classification according to power used
.7	Air raid precautions illumination. Dim-out. <i>See also</i> 355.58	.3	With gas motor
		.114	Classification according to application. <i>Subdivide like</i> 621.9-4
629.1	LOCOMOTION. TRANSPORT ENGINEERING. <i>See also</i> 621.86/.87; 625.2	.115	Classification according to number of wheels
629.1-2	<i>Special Auxiliary Numbers. Subdivide like</i> 621-2	.117	Light vehicles with more than two wheels
629.1-4	Vehicles and vessels for special purposes. <i>Special Auxiliary Numbers</i>	.118	Light vehicles with not more than two wheels
-42	Tractors	.2	With one wheel. Monocycles
-43	Trains of towed vehicles and vessels	.3	Bicycles
-44	Vehicles and vessels for goods	.4	Tandem and other bicycles for more than one person
-45	Vehicles and vessels for a number of passengers. Omnibuses	.5	Motor bicycles in general
-46	Private passenger vehicles	.6	Motor bicycles for more than one person
-465	For invalids	.7	Side-cars. Trailers
-468	For training		
-47	Vehicles and vessels for special purposes	629.119	Garage equipment
-476	Police and pilotage	.5	Refilling equipment
-477	Fire fighting		
-48	Light vehicles and vessels	629.12	SHIPS AND SHIPBUILDING
-482	Racing vehicles and vessels	629.12.0	<i>Special Auxiliary Numbers</i>
629.1-5/-8	<i>Special Auxiliary Numbers. Subdivide like</i> 621-5/-8	.011	Hull. Structural parts. Space distribution
		.013	Hawsers. Towing cables, etc.
629.1.0	Parts and equipment. <i>Special Auxiliary Numbers</i>	.014	Manœuvring devices. Sails
.01	Parts of vehicles and vessels	.015	Anchors
.013	Coupling, drawgear, etc.	.018	Observation and signalling devices
.015	Supporting and landing devices		
.018	Observation and signalling devices	629.121/.127	Kinds of vessel
.02	Propulsion acting through the wheels	.121	Primitive boats
.026	Rear axle drive	.122	Vessels for inland navigation
.027	Front axle drive	.123	Salt water craft
.03	Special means of propulsion. Screws, propellers	.3	Ocean ships. Passenger ships and mail vessels
.035	Reaction propulsion. Jet propulsion	.4	Cargo vessels
.04	Furnishing, interior fittings	.5	Special cargo vessels
.05	Instruments and accessories. Logs. Altimeters. Velocity indicators. Draught indicators. Sextants, etc.	.56	Tankers
.06	Other equipment and outfit. Lines and pipes. Lighting, heating, ventilation. Hydraulic, pneumatic and electrical equipment, etc.	.124	Tugs and other special types of vessel
.07	Measurement. Speed. Manœuvrability. Other characteristics	.2	Tugboats
629.11	LAND VEHICLES. TRANSPORT ENGINEERING	629.124.6/.9	<i>Subdivide like</i> 629.1-46/.49; <i>e.g.</i> 629.124.77 <i>Ships fitted with fire-fighting gear</i>
	<i>For railway and tramway transport see</i> 625. <i>See also</i> 623.43	.72	Fishing vessels
629.11.0	<i>Special Auxiliary Numbers</i>	.722	Whalers
.011	Chassis. Bodies. Superstructure	.125	Small craft
.012	Axles. Wheels. Tyres. Springs	.1	Sailing boats. Rowing boats
.013	Traction couplings	.5	Lifeboats
.014	Steering gear. Seats	.8	Speed boats. Boats gliding on the surface of the water
.015	Supporting devices. Stands	.127	Submarines
.018	Observation and signalling devices	629.128/.129	Installations and apparatus for the construction and repair of ships
		.128	Docks
		.129	Raising sunken ships. Refloating stranded ships
		629.13	AERONAUTICS. AIRCRAFT ENGINEERING.
			<i>See also</i> 623.74
		629.13.0	<i>Special Auxiliary Numbers</i>
		.011	Parts of lighter-than-air craft. Gondolas
		.012	Parts of heavier-than-air craft. Fuselage
		.013	Coupling devices for towing aircraft

29.13.014	Components for flight and control wings. Lifting screws. Controls	629.135.2	Aeroplanes
.015	Alighting gear, land and water. Under-carriage	.4	Helicopters. Rotaplanes
.016/.099	<i>Subdivide like 629.1.016/099, e.g.</i>	.42	Craft with propulsive and lifting screws. Gyroaircraft. Autogyros
.018	Observation, signalling, intercommunication devices	.45	Craft without means for horizontal propulsion. Helicopters properly so called
.035.5	Jet propulsion	.5	Marine and water aircraft. Flying boats
.077.2	Apparatus for flight at high altitudes	.6	Flying machines with moving wings
		.62	Aircraft imitating the flight of birds
29.131	Early attempts at flight. First aerostats. Fire balloons	.136	Heavier-than-air craft without wings
29.132/.134	Lighter-than-air craft. Aerostats	.1	Parachutes
.132	Lighter-than-air craft classified according to type and construction	.2	Capapulted and other projected apparatus
.1	Without means of propulsion. Balloons	.3	Rocket aircraft without wings
.2	Dirigibles. Airships	.137	Amphibious aircraft
.134	Lighter-than-air craft classified according to purpose. <i>Subdivide like 629.1-4</i>	.1	Usable as land vehicles
		.3	Usable on land and water
29.135/.138	Heavier-than-air craft. Aerodynes	.138	Heavier-than-air craft classified according to purpose. Guided aircraft. <i>Subdivide like 629.1-4; e.g. 629.138.68 Training aircraft</i>
.135	Heavier-than-air craft in general	629.139	Hangars. Runways. Starting up, take-off and landing devices. Ground equipment
.12	Kites	629.19	Astronautics
.15	Gliders. Sail planes		

63 Agriculture. Forestry. Stockbreeding. Animal Produce. Hunting. Fisheries

63-1/-8	<i>Special Auxiliary Numbers</i>	631.353	Various haymaking machines. Hay loaders
-1/-2	<i>Subdivide like 631/632</i>	.354	Harvesting machines for corn. Binders
-5/-8	<i>Subdivide like 621-5/-8</i>	.358.4	Potato and beet digging machines
631/635	AGRICULTURE, HORTICULTURE AND FORESTRY	.36	Machinery and tools for scouring, conveyance and dressing of products
631	AGRICULTURE IN GENERAL. AGRONOMY	.361	Threshing machines. Flails. Pip removing machines
631.1	Farming. Working management. Kinds of agricultural undertaking	.362	Devices for sorting, cleansing, winnowing, washing, drying, fermenting
.16	Economic administration. Harvest valuation	.364	Devices for clamping, bunching, sheaving, etc. Forage presses, etc.
631.2	Farm buildings. Premises	.37	Industrial power. Use and transmission of power. Transport
631.3	Agricultural tools and machinery	.372	Motorized transport
.31	Tools for working the soil	.373	Non-motorized vehicles and vessels
.311	Agricultural implements in general	631.4	Soil science
.312	Ploughs	.41	Chemical and physico-chemical properties of the land
.313	Harrows	.42	Soil analysis. Chemical soil research
.314	Rollers	.43	Physical properties of the soil
.315	Horticultural tools	.44	Classification of kinds of soil
.316	Cultivators	.45	Fertility and toxicity of the soil
.319	Other implements. Drillploughs, etc.	.46	Bacteriology of the soil. Soil bacteria
.33	Sowing and planting machines. Manure spreaders, etc.	.47	Survey of the area for cultivation. Lie.
.331	Sowing tools	.48	Topography
.332	Planting tools for small plants	631.5	Formation of agricultural land
.333	Manure spreaders	.51	Methods of cultivation
.334	Manure spreaders combined with sowing machines	.52	Preliminary tilling of the soil
.335	Implements for dividing plants. Layering instruments	.53	Choice and multiplication of plants. Breeding. Selection
.336	Transplanters	.54	Seed. Treatment of seed. Methods of propagation. Layering. Cuttings.
.6	Tree planters	.541	Transplanting
.34	Implements for pruning and protection of plants	.542	Care of plants
.35	Harvesting implements	.543	Improving. Grafting. Inoculation
.351	Harvesting by hand. Scythes. Sickles	.544	Pruning
.352	Mowing machines		Planting
			Forcing

631.548	Screening. Watering	633.49	Tubers
.55	Harvest	.491	Potato
.56	Treatment of products after harvest.	.5	Fibre plants
	Threshing. Cleansing. Storage.	.51	Cotton
	Transport	.52	Flax and other bast fibre plants. <i>Subdivide like 677.1</i>
.57	By- and co-products. Foliage. Bark.		Straw. Osiers. Rushes. Canes. Bam-
	Flowers, etc.	.58	boo, etc. <i>Subdivide like 677.5</i>
.58	Special methods of cultivation. Dry	.6	Sugar- and starch-furnishing plants
	farming. Electro-cultivation, etc.	.61	Sugar-cane
631.6	Clearing. Irrigation. Drainage	.63	Sugar-beet
.61	Clearing. Reclamation	.64	Maple
.62	Drainage	.65	Sugar-palms
.67	Irrigation	.68	Starch-furnishing plants in general
631.8	Fertilizers. Manuring	.7	Plants producing stimulants
.81	Properties and application of manure	.71	Tobacco
.82	Inorganic fertilizers in general. Provision	.72	Tea
	according to the need of the soil for	.73	Coffee
	lime, iron, sulphate, carbonic acid, etc.	.74	Cocoa
.83	Potassium fertilizers	.75	Poppy
.84	Nitrogen fertilizers	.76	Cola
.85	Phosphate fertilizers	.77	Maté
.86	Organic fertilizers in general. Stable	.78	Chicory
	manure. Liquid manure	633.8/.9	Various crops for industrial processing
.87	Other organic fertilizers. Green manuring.	.81	Perfume-supplying plants
	Humus. Refuse, etc.	.82	Aromatic spices. Vanilla. Ginger
.89	Compound fertilizers. Mixed fertilizers	.832	Cloves
631.9	Other topics	.833	Cinnamon
.92	Influence of plantations on surroundings	.834	Nutmeg
.95	Agricultural ecology	.84	Condiments
.96	Plantation systems	.841/.843	Kinds of pepper
632	PROTECTION OF PLANTS. DISEASES	.844	Mustard
	AND PESTS. PHYTOPATHOLOGY	.85	Oil-containing plants. <i>Subdivide like</i>
.1	Damage due to meteorological influences.	.86	665.3
	Physiological diseases	.87	Dye-containing plants
.2	Gall-creating organisms	.88	Tannin-containing plants
.3	Bacterial diseases. Virus diseases	.885.1	Medicinal plants. Medicinal spices. <i>Sub-</i>
.4	Fungous diseases	.888.31	<i>divide like 615.7</i>
.5	Noxious weeds. Parasitic plants	.91	Cinchona
.6	Noxious animals other than insects	.93	Opium poppy
.7	Noxious insects	.94	Rubber trees
.8	Other diseases and pests	.946.1	Gum trees
.9	Precaution against damage. Protection of	.95	Resinous plants
	plants	.954	Copal trees
.94	Dusting, fumigation or capture of the	.956	Trees cultivated for their sap
	damaging agents		Catechu
.95	Remedies against plant diseases and pests		Camphor
	classified according to their action	634	FRUIT CULTIVATION. TREE NUR-
.96	Natural enemies of noxious organisms.	.1	SERIES. TREES
	Biological remedies for plant diseases	.11	Pome fruits
.97	Indirect remedies. Combating carriers.	.13	Apples
	Plant quarantine	.2	Pears
633	CULTIVATION OF SPECIFIC CROPS	.21	Stone fruits
.1	Cereals	.22	Apricots
.11	Wheat	.23	Plums
.12	Buckwheat	.25	Cherries
.13	Oats	.3	Peaches
.14	Rye	.4	Oranges. Lemons. Citrus fruits. Figs
.15	Maize	.5	Various tropical fleshy fruits and rind fruits.
.16	Barley	.51	Tamarinds. Mangoes
.17	Millet	.53	Nuts
.18	Rice	.54	Walnuts
.19	Other kinds of grain. Job's tears, etc.	.55	Chestnuts
.2	Forage grasses	.58	Filberts
.3	Other green fodder. Leguminous forage	.6	Almonds
	crops	.61	Ground nuts
.4	Roots and tubers. Their cultivation as field	.7	Palm fruits and fruits of other tropical and
	crops. <i>See also 633.63; 633.68; 635.1/.2</i>		subtropical fruit trees
			Coconuts
			Currants and soft fruits of small plants or
			shrubs

634.71	Raspberries. Blackberries	635.965.28	Bulbs
.72	Currants. Gooseberries	.281.1	Tulips
.73	Bilberries. Whortleberries	.5	Hyacinths
.75	Strawberries	.282.1	Narcissi
.77	Herbaceous fruits. Bananas. Pineapples	.284	Crocuses
.8	Grapes. Viticulture	.287.2	Ranunculi. Anemones
.83	General questions. Improvement. Culture	.5	Orchids
.84	Species of vine (Botanical subdivision)	.966	Cut flowers
.85	Geographical subdivision for species and varieties	.97	Fancy plants. Various ornamental plants.
		.98	Ornamental shrubs and trees
			Hothouse flowers
634.9	FORESTRY	636/639	STOCKBREEDING. ANIMAL PRODUCTS
.92	Generalities. Forest economics. Forestry industry. Valuation. Measurements	636	STOCKBREEDING. DOMESTIC ANIMALS
.93	Forest engineering. Forest road building. Building of devices for timber transport	636.08	General methods. Care. <i>Special Auxiliary numbers</i>
.94	Forest botany. Dendrology. Types of forest	.081	Breeding methods. Working methods
.95	Forestry in the narrower sense. Forestry methods	.082	Cultivation of breeding stock. Breeds.
.953	Felling. Thinning out	.083	Reproduction
.956	Nursery. Cultivation. Planting	.084	Care of animals. Stalls
.97	Forest taxonomy	.085	Nutrition
.98	Processing and application of timber and forest products	.086	Food in general. Food value
.99	Use of other forest products. Earth. Leaves	.087	Natural, vegetable foodstuffs
.999	Relations between forestry and agriculture	.088	Other foodstuffs
		.089	Use, training and breaking in of animals
635	HORTICULTURE. KITCHEN AND ORNAMENTAL GARDENS. FLOWERS		Damage to animals. Parasites and pests
635.1/.2	Root, tuber and bulb vegetables	636.1	Horses and other single-hoofed animals
.1	Root vegetables. Edible roots	.2	Cattle and other large ruminants
.11	Beet	.29	Various large ruminants. Buffalo. Yak.
.12	Swede. Turnips. Celeriac	.3	Deer. Camel. Llama
.13	Carrots	.32/.38	Small ruminants
.15	Radish	.39	Sheep
.16	Various roots. Salsify	.4	Goats
.2	Tubers and bulbs	.5	Pigs
.21	Potatoes	.52/.58	Poultry. Fowls. Chickens. Hens
.25	Onions	.59	Hens
.26	Other alliaceous crops. Garlic	.6	Turkeys. Guinea fowls. Pheasants.
635.3/.5	Green vegetables	.61	Peacocks. Pigeons. Ducks. Geese
.31	Asparagus	.68	Other birds
.34	Cabbage	.7	Birds kept for their plumage. Ostriches
.35	Cauliflower	.74	Ornamental birds. Cage birds
.36	Brussels sprouts	.75	Dogs
.41	Spinach	.76	Watch dogs. Sheep dogs. Police dogs
.48	Rhubarb	.8	Hounds
.5	Salad species	.9	Fancy dogs
.52	Lettuce	.92	Cats
.54	Chicory	.93	Other domestic animals
.55	Endive	.97	Rabbits
635.6/.7	Other garden produce	.972	Animals bred for fur
.6	Plants with edible fruits and seeds	.976	Various useful animals
.61	Melon	.98	Tortoises
.62	Pumpkins		Elephants
.63	Cucumbers		Circus animals and animals for zoological gardens
.64	Tomatoes	637	Produce from domestic animals
.65	Pulses. Beans and peas	637.0.	Dairying. Milk products in general
.7	Aromatic greenstuff. Mint. Parsley	637.1	Milk
635.8	Mushrooms. Truffles	.11	Exploitation
635.9	Flower culture. Ornamental horticulture	.12	Production. Composition. Control
.94	Division according to method of reproduction	.13	Processing. Dairy factories
.942	Seed culture	.131	Dairy farms. Milking stalls
.944	Bulb growing	.132	Installations
.95	Division according to climate, season, etc.	.133	Preservation. Pasteurization. Sterilization
.96	Division according to application	.135	Transport. Bottles. Cans. Vehicles
.965.2	Indoor plants and ornamental flowers	.14	Applications. Various products
		.141	Full cream milk. Fresh milk

637.142	Condensed milk	638.2	Silkworm breeding
.143	Milk powder	.27	Silk
.145	Milk sugar	.3	Cochineal breeding
.146	Fermented milk. Yoghourt	.4	Breeding of other insects. Ant breeding
.147	Skim milk	.5	Breeding of Arachnoidea (spiders)
.148	Cream	.7	Breeding of reptiles
.16	Adulterations. Taint. Deficiencies	.8	Breeding of ornamental insects and reptiles
.17	Special kinds of milk		
.174	Goat's milk	639	HUNTING, FISHERIES AND FISH BREEDING, OYSTER BREEDING, ORNAMENTAL ANIMALS
.18	Substitutes. Artificial milk		
637.2	Butter	639.1	Hunting
.22	Composition. Control	.1.0	<i>Special Auxiliary Numbers</i>
.23	Butter preparation. Transport. Packing	.03	Formation of a game reserve
.24	By-products. Buttermilk	.04	Care of the reserve
.26	Taint. Deficiencies. Adulteration	.05	General hunting questions
.28	Butter substitutes in general. <i>See also</i> 664.3	.055	Hunting season and other restrictions
637.3	Cheese	.057	Sportsmen. Beaters
.32	Composition. Control	.081	Hunting and catching methods
.33	Cheese preparation. Transport and storage	.09	Enemies and pests of game. <i>See also</i> 619
.34	By-products. Whey. Milk sugar	.11/.16	Kinds of game
.35	Kinds of cheese	.11	Mammals in general. Big game. Hares. Rabbits, etc.
.352	Curd		Wild fowl
.353	Soft cheese	.12	Seal hunting
.354	Hard cheese	.13	Crocodiles. Alligators
.36	Deficiencies. Adulteration. Taint	.14	Other reptiles. Tortoises
637.4	Eggs	.15	Other animals
.43	Treatment of eggs	.16	Various hunting products. Hides. Antlers. Horns
.433	Preserving	.18	
.44	Kinds of eggs. Egg products	639.2	Fisheries
.445	Egg powder	.2.0	<i>Special Auxiliary Numbers</i>
.45	Division of eggs according to kind of bird. <i>Subdivide like</i> 636.5	.03	Development of the fishing ground. Fry
637.5	Meat. Fat. <i>See also</i> 664.9	.04	Care of the fishing ground
.51	Butchery. Abattoir. Meat inspection	.05	General fishery questions
.52	Sausage and meat delicacies. Pork butchery. <i>See also</i> 664.94	.055	Restrictions. Undersized fish. Fishing season, etc.
.523	Sausage manufacture	.057	Fishermen
.524	Kinds of sausage	.081	Methods of fishing
.525	Other meat delicacies	.1	With nets, traps, etc.
.526	Deficiencies. Adulterations. Taint	.2	With weapons
.53	Processing of carcasses. Destruction business	.4	With hooks
.54	Poulterer's business. Fowls	.5	With harpoons
.55	Game	.09	Enemies and pests of fish
.56	Fishmongery	.21/.29	Kinds of fishery
637.6	Wool. Hair. Feathers. Hides. Hooves. Butchery refuse	.21	Freshwater fisheries
.61	Skins. Hides	.22	Sea fisheries
.62	Hair. Bristles. Wool	.222.2	Herring fishery
.63	Feathers. Combings. Bird and reptile skins	.4	Sprat
.64	Horns. Claws. Beaks	.6	Anchovy
.65	Bones. Teeth	.223	Haddock. Cod
.66	Blood. Gut	.227	Mackerel
.67	Tortoiseshell	.228	Flat fish. Plaice
.68	Civet. Musk, etc.	.24	Hunting sea mammals. <i>See also</i> 639.13
.69	Other animal products. Edible birds' nests	.245.1	Whaling
		.25	Inshore fishery
		.27/.29	Catching or collection of shell fish and other marine creatures and marine products. <i>Subdivide parallel with</i> 639.4/.6. <i>Classify preferably under</i> 639.4/.6
638	BREEDING OF INSECTS AND REPTILES	.282	Shrimping
.1	Beekeeping. Agriculture	639.3	Fish breeding
.11	Generalities. Apparatus. Hives	.31	In fresh water
.12	Kinds of bees	.32	In sea and brackish water
.13	Honey supplying plants. Raw honey	.34	Ornamental fish breeding
.14	Apiology	.38	Various products of fish and marine creatures
.15	Bee diseases and pests		Fish eggs. Caviare
.16	Honey		Scales
.17	Beeswax		
.18	Bee resin	.382	
.19	Bees as flower fertilizers	.385	

639.386	Fish skins. Bladders	639.519	Various crustaceans. Hermit crabs
.388	Ambergris	.54	Leeches
639.4	Cultivation and catching of shellfish and snails	639.6	Breeding and winning of other marine products
.41	Oysters	.61	Sponges
.42	Mussels	.62	Coral
.43	Various molluscs	.63	Other animal products
.44	Other scallops	.64	Vegetable products. Seaweeds. Algae
.45	Edible snails. Winkles	.66	Fossil products. Meerscham
639.5	Cultivation and catching of crustaceous and bloodsucking animals	639.9	Breeding of ornamental animals
.51	Breeding of crawlers	.92	Terraria
.512	Shrimps	.93	Aquaria
.515	Crawfish	.94	Aquaterraria
.516	Lobsters	.95	Aviaries. Pigeon lofts, etc.
.517	Freshwater crayfish	.96	Homes, pens, hutches, etc., for mammals, conies, squirrels, etc.
.518	Crabs		

64 Domestic Science. Housekeeping

64.0	<i>Special Auxiliary Numbers</i>	643/645	THE HOME AND HOUSEHOLD EQUIPMENT
.01	General questions		
.02	Types of housekeeping	643	The Home
.021	Private housekeeping	.1	Location. Site
.023	Service housekeeping in flats, etc.	.2	Plan
.024	Hotel, café and restaurant industry	.3	Kitchens. Kitchen equipment
.1	Hotels	.31	General questions. Location
.2	Boarding houses	.32	Ventilation
.3	Restaurants, cafés	.33	Ovens. Stoves. Cookers
.4	Tearooms. Milkbars	.34	Kitchen equipment. Machines and apparatus. Cutting, chopping and peeling devices. Tin openers
.5	Central kitchens. Delivery of meals	.35	Kitchen utensils
.6	Clubs, etc.	.352	Pots. Pans. Kettles
.027	Cottage housekeeping	.353/.354	Various accessories for preparation of foods. Boards. Tongs. Beaters. Sieves
.028	Temporary housekeeping. Camps. Traveling	.36	Pastry room
.029	Other housekeeping	.37	Stores. Larders. Cold stores
.04	Kinds of duties. Porters' service	.38	Kitchen maintenance. <i>See also</i> 648.54
.08	Removals	.39	Kitchen living rooms. Kitchen cupboards. Kitchenettes. Sculleries
.09	Menus. Price lists	.4	Dining room and annexes
641/642	CATERING. MEALS	.5	Bedrooms. Bathrooms. Living rooms
641	Food. Cookery	.51	Bedrooms. Dormitories. Cubicles
.1	Qualitative properties of foodstuffs. Composition. Food value, etc.	.52	Bathrooms. Cloak rooms. Toilets
.3	Animal and vegetable foods	.53	Living rooms. Reception rooms. Boudoirs. Smoking rooms
.4	Preservation. Keeping. <i>See also</i> 664.8/.9	.54	Nurseries. Guest rooms. Servants' rooms
.5	Cookery	.55	Studies. Workrooms. Studios. Rooms for games, music, etc.
.5(083.1)	Recipes	.56	Various spaces. Halls. Staircases
.56	Special cookery. Cookery for children and invalids. Vegetarian recipes. Religious food observances	.57	Annexes. Sleeping balconies. Terraces. Verandahs
.6	Preparation of specific foodstuffs	.58	Washhouses and home laundries
.7	Methods of preparation. Roasting. Stewing. Boiling, etc.	.6	Labour saving devices. Internal communication
.8	Made dishes. Entrées, sweets and other courses. Ices. Drinks	.62	Signalling devices. Bells. Speaking tubes
642	Meals. Table service	.64	Conveyance devices. Lifts. Kitchen hatches. Rubbish chutes, etc.
.1	Principal meals. Home and family meals	.66	Remote-control devices for opening doors, etc.
.2	Light meals. Afternoon tea	.7	Repair and upkeep of rooms
.3	Outdoor meals. Picnics	.8	Cellars
.4	Banquets and official dinners	.9	Attics
.5	Tables for a large number of persons. Table d'hôte. Cold buffet	644	Heating. Illumination. Ventilation. Water supply
.6	Table service. Waiting. Carving	.1	Heating. <i>See also</i> 662.91; 697
.7	Table linen. China. Glass. Plate		
.8	Table decoration		

644.12	Appliances for handling fuel. Lighters.	646.6	Cleaning of clothing. Dry cleaning. Upkeep and maintenance of clothing
.19	Coal scuttles. Tongs. Fire irons	.7	Toilet. Cosmetics. Beauty culture
.3	Small heating contrivances. Bedwarmers.	.8	Devices for hanging up clothes. Trouser presses. Boot trees
.5	Footwarmers, etc.		
.6	Illumination. <i>See also</i> 628.9; 621.32		
.61	Ventilation. Air conditioning		
.62	Water supply	647	HOUSEHOLD ORGANIZATION AND MANAGEMENT
.64	Drinking water	.1	Household accounts and budgets
	Hot water	.2	Staff in general. Indoor staff. Attendance
	Washwater	.3	Outdoor service
645	Furniture. Furnishing. Upholstery. Fitting-up	.4	Special services. Watchman. Caretaker
.1	Floor coverings. Linoleum. Carpets and carpeting. Matting	.6	Wages. Hours. Duties
.2	Wall coverings	.7	Reception of guests. Calls
.3	Window and door furnishings	648	CLEANING. LAUNDRY WORK
.31	Curtains, etc.	<i>See also</i> 667.1	
.313	Roller blinds	.1	Washing and bleaching in general. Public laundry arrangements. Washing materials. Soap. Starch. Bleaches
.33	Curtain rails and accessories		
.4	Furniture and accessories	.2	Laundry
.41	Chairs	.21	Soaking
.42	Beds. Sofas. Divans. Couches	.22	Washing by hand. Accessories in washing
.43	Tables	.23	Machine laundry. Washing machines
.44	Writing tables. Desks	.25	Starching
.45	Chests. Chests of drawers. Wardrobes. Cupboards	.27	Blueing
.46	Furniture accessories. Casters	.28	Chemical cleaning
.47	Pillows. Mattresses	.3	Wringing. Drying. Drying rooms
.48	Household linen. Blankets	.4	Ironing
.49	Other furniture. Mirrors. Step-ladders. Letter boxes. Picture hangers. Fire-screens. Ash trays	.45	Mangling
.5	Room decoration. Clocks. Pictures. Vases. Ornaments, etc.	.5	Cleaning of house and furniture
.6	Complete room furnishing. Suites. <i>Sub-divide by means of sign of Relation : e.g. 645.6:643.41 Dining room suites; 645.6:643.51 Bedroom suites</i>	.52	Of furniture, floors and walls
.68	Sanitary arrangements	.53	Window cleaning
.681	Furniture. Dressing tables. Wash-stands, etc.	.54	Cleansing of dishes
.683	Bathroom installations	.55	Cleansing of metal articles
.685	Toilet equipment	.56	Cleansing of glass articles
.687	Accessories for toilet equipment	.6	Disinfecting
		.7	Eradication of vermin. Traps. Poisons
646	CLOTHING. LINGERIE	649	CARE OF CHILDREN, INVALIDS AND GUESTS
.1	Materials	<i>See also</i> 613	
.2	Sewing. Knitting. Crochet. Mending. Darning	.1	Care of children in general
.3	Clothing for men, women or children	.2	Housekeeping for the nursery
.4	Underclothing. Outer clothing. Footwear	.3	Feeding of children
.5	Headgear. Hats. Caps. Bonnets. Hoods	.4	Physical care of children. Dressing
		.5	Children's games. Gymnastics
		.6	Behaviour and habits of children in the household
		.8	Care of invalids in the household. The sick room
		.9	Care of guests and other persons

65 Commercial Sciences. Organization. Traffic

65.01	GENERAL THEORY OF ORGANIZATION. <i>Special Auxiliary Numbers</i>	65.012.6	Co-ordination. Collaboration
		.7	Supervision. Control and verification
.011	Principles. Rationalization. Efficiency. Retrenchment. Taylor system	651	OFFICE ORGANIZATION. OFFICE MANAGEMENT
.012	Directorship. Theory of administration	651.1/.2	Installation
.1	Management. Administration in general	.1	Buildings. Premises. Office space
.2	Plans. Preparation. Forecasts	.2	Furniture. Materials. Equipment. Machines; e.g. 651.2:681.14 <i>Calculating machines; 651.2:681.177 Punched card machines; 651.2:681.61 Typewriters</i>
.3	Organization		
.33	Reorganization		
.4	Direction		
.5	Execution		

651.3	Structure. Organization. Departments. Staff establishment	654.1	Telegraphy. Telephony. Television
651.4/.7	Office administration. Efficiency. Routine	.14	Telegraphy by wire. Cable telegraphy
.4	Office administration	.145	Teleprinting
.41	Time division	.147	Police and fire brigade telegraph
.45	Efficiency methods	.15	Telephony by wire
.456	Messenger service	.16	Radio communication
.457	Handling of the mail	.17	Television. Telephotography. Image trans-
.46	Office equipment	.19	mission
.47	Stock-keeping	.191	Radio broadcasting
.5	Archives. Records. Registration	.195	Transmission
.51	Kinds of documents. Book form. Loose-	.196	Radio distribution by telephone
.52	leaf form	.197	Wireless broadcasting
.53	Production of documents (by hand, by	654.9	Television transmission
.538	machine, by own press)	.91	Signalling. Alarms
.54	Arrangement. Registration. Classifica-	.92	Visual signalling
.545	tion. <i>For theory of classification see</i> 025.4	.93	Acoustic signalling. Sirens, etc. Alarm
.55	Sorting	.94	devices. Bells (electric and mechanical).
.56	Filing methods		Alarm clocks. Underwater signals. Echo
.57	Vertical		sounding
.6	Various accessories for files (labels, riders)		Teletransmission of orders. Telecontrol
.7	Registration of data of permanent value		Teletransmission of readings; e.g. tele-
.71	Registration of papers of temporary value.		thermometers
.72	Reminders	655	PRINTING. PUBLISHING. BOOK
.74	Special accessories for arrangement of		TRADE. Communication by means of the
.75	documents. Portfolios. Dossiers. Letter		printed word. <i>See also</i> 681.62; 686
.76	files	655.1/.3	Typography
.77	Correspondence. Reports, etc. Blanks	.1	History of typography
.78	therefor	.2	Typesetting. Printing forms
	Letter paper. Bills. Envelopes, etc.	.22	Duplicate plate making. Stereotyping.
	Other forms	.25	Electrotyping
	Letter style. Clear language	.28	Type setting by hand
	Division and composition of business	.3	Mechanical typesetting
	letters. Letter outlines. Internal corre-	.32	Printing. Presswork
	spondence	.34	Relief printing. Letterpress
	Special announcements. Invitations	.35	Flat printing. Lithography
	Minutes		Intaglio printing. Photogravure
	Various reports and notices		
652	COMMERCIAL SCRIPT. COPYING AND	655.4/.5	Publishing and bookselling trade
.1	TRANSLATION WORK. <i>See also</i> 003	.4	Publishing and book trade in general
.3	Business handwriting. Commercial corre-	.41	Publishing. Kinds of publishing business
.5	spondence. <i>See also</i> 651.7	.42	Bookselling. Types of booksellers
.6	Typewriting. Duplicating. Typing work	.5	Various questions relating to publishing and
.7	Writing and copying bureaux		book trade
.8	Translation work. Translation bureaux	.51	Manuscripts
	Codes and cyphers	.52	Relation between author and publisher
653	ABBREVIATION. STENOGRAPHY.	.53	Details concerning books and newspapers.
.1	SHORTHAND	.54	External form
.2	Theory and technique of abbreviated writing	.55	Pricing. Costing
.3	Abbreviation of ordinary handwriting	.56	Press notices. Reviews. <i>See also</i> 659.1
.4/.7	Mechanical stenography. Shorthand typing.	.57	Circulation and sales organization. De-
.72	Speed typing. <i>See also</i> 681.613.3	.58	livery
.75	Various systems of stenography	.59	Subscription book publishing. Publication
	Pitman's shorthand		in parts
	Gregg's shorthand		Publishing by special publishers' and book-
654	ORGANIZATION OF TELECOMMUNI-		sellers' organizations. (Book guilds,
654.0	CATIONS. Organization of telegraphy,		etc.)
.01	telephony and signalling. <i>See also</i> 621.39		Government, and other official, publishing
.02	Generalities. Special Auxiliary Numbers	656	TRANSPORT ORGANIZATION
.03	General organization		<i>For economic aspects see</i> 38. <i>For Engineer-</i>
.04	Service regulation. Kinds of services		<i>ing see</i> 629.1
.05	Tariffs. Payment. <i>Subdivide like</i> 658.8.03	656.0	Generalities. Special Auxiliary Numbers
.06	Interruptions. Delay. Complaints	.01	General organization. Stations. Stopping
.07	Calls. Signals	.02	places. Parking places
.091	Auxiliary services	.03	Service regulation. Stages
	Organization. Administration	.032	Tariffs
	Concessions. Licences. Various docu-	.033	Passenger fares
	ments		Goods rates

656.04	Interruptions. Delays. Complaints	656.52	Transport and traffic inside large buildings
.05	Traffic regulation	.56	Pipelines
.052	Driving of vehicles and navigation of vessels	656.6	Transport by water. Navigation
.053	Traffic restrictions	.61	Sea navigation
.054	Traffic signs in general	.62	Inland navigation
.055/.057	Fixed traffic signs. Signalling devices	.629	Local traffic by water. Water taxis
.06	Incidental services. Service stations	.65	Lake navigation
.07	Administration. Staff service	.66	Traffic with ferry boats and ferries
.071	General staff service. Captain. Driver. Auxiliary staff	656.7	Air transport
.072	Administration of passenger traffic	.71	Airports. <i>See also</i> 629.139; 347.81
.073	Administration of goods transport	.8	Mail. <i>See also</i> 383; 654
.074	Animal transport	.81	Generalities. Post offices
.076	Hire, laying up, chartering, etc., of vehicles and vessels	.82	General formalities. Registering. Certificates. Authorizations. Postmark
.078	Improvement and stimulation of traffic	.83	Letter post. Addressing. Stamping. Kinds of letters. Tariffs
.1	Co-ordination of traffic	.835	Postage. Philately
.8	Traffic competition	.84	Clearing of letter-boxes. Reception at Post Office. Sorting
.08	Accidents. Assistance	.85	Dispatch
.09	Various questions. Passports. Ships' papers. Certificates. Licences and other documents	.86	Transport methods for letters
656.1/.5	Land transport	.863	Tube transport. Pneumatic post
656.1	Road transport	.87	Carrying letters. Delivery
.11	Road transport and use of road in general	.88	Kinds of postal consignment. Various services
.117	Use of road for purposes other than transport	.881	Ordinary post
.12	Vehicles drawn by animals	.882	Parcel post
.13	Automobiles	.883	Payments and collection. Money orders
.131.2	Taxicabs	.884	Postal cheque and clearing service
.132	Motor buses	.885	Post Office savings bank
.135	Motor vans	.886	Newspaper service
.138	Private cars	656.9	Other forms of traffic
.14	Pedestrians. Carrier transport by human beings or animals	.96	Transport undertakings
.18	Cycles and motor cycles	.97	Indoor traffic
.183	Bicycles	657	ACCOUNTANCY. BOOKKEEPING
.185	Motor cycles	657-1/-6	<i>Special Auxiliary Numbers. Subdivide like 657.1/.6</i>
.19	Other transport. Sledges	657.0	General questions. <i>Special Auxiliary Numbers</i>
656.2/.4	Railway and tramway transport	.01	Theory of bookkeeping
.2	Railway transport	.05	Bookkeeping with special objects. Confidential accountancy records. Bookkeeping required for taxation
.21	General exploitation. Buildings. Stations	657.1	Bookkeeping systems. Single entry bookkeeping. Double entry bookkeeping
.211	Passenger stations	657.2	Conduct of calculation in general
.212	Goods stations	.21	Definition. Debit. Credit
.213	Special stations for livestock, coal, etc. Harbour stations. Private stations	.23	Errors
.214	Joint stations	.26	Bookkeeping technique
.216	Level crossings. Halts	.261	Mechanization
.22	Trains. Train services	.262	Loose leaf books. Cards
.221	Loading of the train	.263	Tabular bookkeeping
.222	Train service. Service regulation	.27	Organization of bookkeeping
.223	Distribution of the load between carriages and wagons. Use, return and exchange of coaches	.272	Centralization
.224	Passenger and mail transport	.273	Decentralization
.225	Goods transport	.276	Uniform bookkeeping
.226	Parcel post. Luggage. Lost property	.28	Methods of payment
.228	Publicity Special facilities	.282	Pay office management
.23	Tariffs	.286	Remittances
.25	Safety measures. Signals. Block system	657.3	Records required for bookkeeping and budgeting. Account books. Inventories and balance sheets
.26	Auxiliary services. Delivery services. Station buffets, etc.	.31	Budgets
.27	Working of sections with sparse traffic. Simplification of service in that connection	.32	Cash book
.3	Transport on special railway lines		
.33/.35	<i>Subdivide like 625.3/.5</i>		
.4	Light railway transport. Tramway transport		
.5	Other land transport		

657.33	Day book. Journal	658.1	General questions
.34	Ledger	.11	Foundation of enterprises. Headquarters.
.35	Ancillary and subsidiary books		Form of management
.36	Trial balance	.14	Financing. Capitalization
.37	Inventories and balance sheets	.15	Financial administration. Control. Loss.
.371	Inventories		Profit. Dividend
.372	Balance sheets in general	.16	Rationalization. Reorganization. Mergers
.373	Depreciation	.17	Expenditure. Outgoings
.375	Kinds of balance sheets		
.377	Realization. Liquidation	658.2/.5	Industrial organization
657.4	Accounts	658.2	Establishments. Workshops. Factories. <i>See</i>
.01	Sequence of accountancy operations: planning and standard methods of operation. <i>Special Auxiliary Numbers</i>	.21	<i>also</i> 621.7; 72
.41	Capital accounts. Auxiliary accounts of capital account	.22	Situation. Site
.42	Accounts of assets, realizable and non-realizable assets, cash and bank	.23	Materials
.43	Personal accounts	.24	Plan and division of site. Arrangement of buildings
.431.8	Current account	.25	Illumination
.432	Debtors	.26	Heating. Ventilation. Acoustic arrangements
.433	Creditors	.27	Motive power
.44	Calculation of results. Profit and loss accounts. Accounts auxiliary thereto. Development accounts. Turnover calculations	.28	Equipment for production
.45	Other accounts	.281	Equipment for service. Means of conveyance within the business
.47	Calculation of prime cost. Prime cost book-keeping	.29	Technique of conveyor line. Technique of conveyor belt. Production line
.471	Kinds of expenses in general	658.3	Other questions
.1	Direct expenses	.0	Staff. The human labour factor. <i>Subdivide like</i> 331; <i>e.g.</i> 658.381 <i>Working hours</i>
.2	Indirect expenses	.04	<i>Special Auxiliary Numbers</i>
.3	Wages expenses	.041	External influences on work. <i>Subdivide like</i> 331.04
.472	Production costs	.042	Technical factors. Character of the work. <i>See also</i> 658.54
.1	Direct	.043	Administrative factors. Factors brought about by the organization
.2	Indirect	.044	Physical and chemical factors
.473	Selling expenses	.048	Duration of work
.478.2	Preliminary, intermediate and later calculations and adjustments		Various factors not directly arising from the business. Social factors. Private circumstances
.3	Apportionments. Adjustments <i>re</i> additional items	.05	Internal influences on work. Factors which depend on workers themselves. <i>Subdivide like</i> 331.05
.5	Unit method	.051	General factors. Race. Age. Sex
.6	Standard costs	.053	Physique factors. Here classify also factors which concern mental as well as bodily condition
.8	Costs comparison	.054	Mental factors
657.5	Bookkeeping classified according to object. Private, financial, commercial, industrial, etc.	.055	Fatigue research
.51	For private persons	658.5	Internal organization. Production control.
.52	For undertakings	.51	Shop management
.53	For institutions, societies	.511	Preparing the work plan
.56	For public authorities	.512	Analysis of work to be done
.58	For specific departments of businesses. <i>Subdivide like</i> 657.4; <i>e.g.</i> 657.587.13	.513	Process lay-out. Routing
.59	<i>Wages administration</i>	.514	Scheduling. Manufacturing order control. Programming
.594	Miscellaneous accounting methods	.515	Machine loading and labour utilization
.595	For executorship, trustees, etc.	.516	Assembly. Progressing
	Insolvency bookkeeping		Standardization within the business. <i>See also</i> 389.6
657.6	Control and review of results	.53	Calculation of performance. Production charts
.62	Balance sheet analysis	.531	Time records. Time measuring
.63	External and internal control. Auditors' control	.532	Production records
.635	Auditors' reports	.54	Time and motion studies. Rate fixing
657.9	Other questions. Valuation	.542	Operation studies
		.542.1	Time studies
		.3	Motion studies
658	ORGANIZATION OF WORK. INDUSTRY. BUSINESS ORGANIZATION	.543	Variations from standard time
.013	Theory. <i>Special Auxiliary Numbers</i>	.56	Internal shop organization
	Industrial psychology in general	.561	General methods
		.562	Inspection. Quality control
		.563	Tool store. Tool issue

658.565	Distribution of work. Instructions	659	PROPAGANDA. ADVERTISING. INFORMATION. ADVICE
.567	Losses. Waste products		
.57	Organization of experiments and research	659.1	Publicity. Advertising. Propaganda
.58	Shop maintenance		
658.6/.8	Commercial organization	659.1.0	Generalities. <i>Special Auxiliary Numbers</i>
658.6	Commercial technique in general. <i>See also</i>	.01	Theory of advertising. Psychology of advertising
.69	Barter	.02	Advertising methods. Aim and form
658.7	Buying. Receiving. Storing. Despatch	.03	Costs. Efficiency. Tariffs
.71	Organization of purchase	.04	Cultural value of advertising. Humour.
.72	Purchase methods		Faults. Badly conducted advertising.
.73	Prices. <i>Subdivide like</i> 658.8.03		Undesirable advertising. Damage
.735	Tariffs	.07	arising from advertising
.74	Orders		Advertising in relation to persons.
.75	"Follow up" of purchase	659.11	Propagandists. The public
.77	Receipt of goods		General organization of advertising and
.78	Stock control. Inventories	.112	propaganda
.788	Packing. Despatch	.113	Advertising enterprises
658.8	Sale		Preparation of advertising. Advertising
.0	General questions. <i>Special Auxiliary Numbers</i>	.2	campaigns
.013	Sales psychology	.3	Market research
.03	Selling prices. Tariffs	.5	Plan
.031	Calculation	.6	Result forecasting
.032	Wholesale and retail selling prices	.7	Execution
.033	Discount. Reductions	.115	Result
.035	Sales tariffs in general	659.13/.17	Visiting. Meeting. Personal canvassing
.1	General bases. Ways of counting	.13	Media for advertising and canvassing
.2	Fixed tariff irrespective of consumption	.131	Optical and printed advertising
.3	Decreasing tariffs	.132	Advertisements
.4	Proportional tariffs	.133	Direct mail advertising. Prospectuses.
.44	With prepayment		Circulars. Letters. House organs
.5	Progressive tariffs	.134	Advertising hoardings. Advertising by bill-
.7	Fixed legal tariffs		sticking. Posters. Notice boards
.036	Tariffs on bases other than delivered quantity	.135	Moving (or animated) advertising hoard-
.2	Dependent on place, on distance	.136	ings and posters
.3	Dependent upon time		Illuminated signs
.5	For groups of persons	.137	Various kinds of printed advertising.
.6	For specific purposes or kinds of wares	.138	Advertisements on objects. Advertising
.7	For rush delivery	.139	calendars, etc.
.8	For methods of delivery		Advertising by films and diapositives
.9	Extra costs. Extras. Index tariffs	.14	Special visual contrivances. Special glance
.038	Free delivery	.145	catchers. Air advertising
.07	Training of salesmen	.15	Various questions. Light and colour
.08	Sales analysis		action. Type forms
.81/.88	Various questions of sales organization	.152	Aural advertising
.81	General organization of sales	.154	Radio advertising. Advertising by gramophone installations
.82	Sales promotion. Catalogues, etc.	.157	Advertising by creating popular demand and
.83	Marketing products		by display of the objects for sale
.831	Direct sale	.181	Advertising exhibitions
.832	Consignment	.182	Decoration, packing and characterization
.833	Sale through agencies	.183	of wares
.84	Sales systems	.184	Devices for creating popular demand for
.841	By private contract. <i>Subdivide like</i> 381.1	.185	goods. Window-dressing devices
.845	Sale by samples	.186	Gift systems. Advertising prizes. Discounts
.846	Sale through travellers	.187	as prizes
.85	Sales technique	.17	Active participation by purchasers in ad-
.86	Wholesale		vertising. Advertising competitions.
.87	Retail. Mail order	659.18	Clearance sales
.88	Collection. Recovering claims	.181	Types of advertising
.883	Hire purchase	.182	Collective advertising
658.9	Other business transactions	.183	Advertising by inventors, authors
.91	Renting. Letting. Hiring	.184	Advertising by producers
.92	Various commercial businesses. Warehousing business. Concession sales. Sale of patents. Licences	.185	Advertising by merchants
.97	Subscription. Continuous sale	.186	Advertising by tradespeople
		.187	Advertising by consumers
		659.19	Advertising by advertising experts
		.191	Various propaganda devices
			Badges. Flowers. Flags

659.2	Information. Advice. Consultation. <i>See also</i> 002; 025.5; 028
.21	Technique of supplying information in general. Moral responsibility of persons supplying information
.22	Technique of advising in general. Appraisalment

659.23	Trade information. Information concerning credit worthiness. Trade advice
.24	Technical information
.25	Scientific information. <i>See also</i> 37
.27	Information to persons in general
.28	Requests for information. <i>Subdivide like</i> 659.2

66 Chemical Industry. Chemical Technology

66-2/-9	<i>General technical auxiliary numbers for parts and nature of plant and tools. Subdivide as 621-2/-9</i>
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66.0 CHEMICAL TECHNOLOGY. INDUSTRIAL CHEMISTRY

Special Auxiliary Numbers

.01	Chemical engineering. Chemico-technological questions in general
.012	Control. Consumption. Yield
.3	Fuel and energy consumption
.5	Material products
.7	Economic yield and other economic questions
.013	Chemical industry in general
.017	Raw materials
.019	Faults and imperfections in raw materials and products
.02	Working methods and apparatus
.022	Treating and preparing solids, liquids and gases. <i>Subdivide by means of sign of Relation : and the subdivisions of 621.9</i>
.023	Containers. Reaction vessels
.024	Mounting of plant
.025	Sealing devices. Stoppers
.026	Tubes, pipe lines. Lutes and cements
.04	Heat treatment
.041	Furnaces
.042	Furnace accessories. Charging and clearing equipment
.043	Furnace materials
.044	Furnace upkeep and repair
.046	Thermal processes. Temperature regulation. Roasting, fusion, autoclaves
.047	Drying
.048	Distillation
.5	In vacuum
.049	Other thermal methods of separation. Separation of solid matter by evaporation of solution. Fractionation. Extraction by partial fusion. Sublimation
.06	Treatment and manipulation of liquids. Solution. Purification. Filtration. Refining
.061	Solution and extraction
.062	Solvents
.063	Mixing and agitation of fluids. Dilution. Homogenization
.6	Dispersion. Emulsification
.064	Dialysis
.065	Solidification. Precipitation. Crystallization
.066	Clarification. Decantation. Separation of liquids
.067	Filtration. Refining
.4	Filter presses. <i>See also</i> 621.979
.5	Centrifuges
.7	Decolorization. Deodorization
.068	Pressing out

66.069	Other processes of treating liquids
.069.1	Washing
.82	Treatment of liquids with gases
.84	Degassing of liquids
.07	Treatment and manipulation of gases
.071	Production of gases
.073	Collection. Transference. Conditioning
.074	Washing. Solution. Drying. Purification
.075	Carburation
.076	Storage of gases. Gas holders
.077	Rarefaction of gases
.078	Compression. Condensation and liquefaction of gases
.08	Physical and physico-chemical operations
.081	Stabilization
.082	High and low concentration processes
.083	High and low pressure processes
.084	Application of vibrations, e.g. ultra-sonic vibrations
.085	Photo-chemical processes
.087	Electro-chemical processes
.089	Electro-capillary processes
.09	Chemical processes
.091	Syntheses
.092	Destructive operations. Cracking
.093	Treatment or reaction with water. Hydration. Dehydration
.094	Hydrogenation. Reduction. Oxidation. Halogenation. Sulphonation. Acidification. Basification. Neutralization
.095	Organic chemical processes. Saponification. Isomerization. Polymerization. Acylation. Condensation. Nitration. Esterification
.096	Treatment with inert gases. Carbon dioxide
.097	Catalytic processes
.3	Catalysts
.5	Vehicles
.098	Biological processes
.099	Finishing processes

661 CHEMICAL PRODUCTS IN THE NARROWER SENSE

661.1	<i>Special chemical industries</i>
.13	Products for the electrochemical industry
.14	Photo-chemical products other than light-sensitive materials
.17	Manufacture of mixtures without chemical change
.18	Colloidal products
.182	Colloidal products and adsorbents. <i>Subdivide as 541.182</i>
.183	Adsorbents
.2	Active carbon
.7	Silica gel
.184	Semi-colloidal products. Decolorizing flushes. <i>See also</i> 622.243

661.2	Sulphur. Sulphur compounds	661.73	Organic acids. Salts and esters
.21	Sulphur	.731	Acetic acid
.22	Carbon disulphide	.78	Organo-metallic compounds
.23	Sulphur halogen compounds	661.8	Inorganic compounds in general. Salts. Mineral pigments
.24	Sulphurous acid. Sulphites	.83	Compounds of alkali metals. <i>See also</i> 661.3
.247	Hyposulphites. Hydrosulphites	.84	Compounds of metals of the second group.
.249	Sulphuretted hydrogen. Sulphides	.85	Alkaline earth metal compounds
.25	Sulphuric acid	.86	Lead, copper, silver and gold compounds
661.3	Potassium and sodium compounds. <i>See also</i> 661.83	.87	Compounds of aluminium and the rare earths.
.31	Potassium. Potash and other potassium compounds	.88	Alum
.32	Sodium. Soda and other sodium compounds	.89	Compounds of manganese, metals of the iron group and the sixth group
661.4	Halogens	.91	Compounds of metals of the fourth and fifth groups
.41	Chlorine	.92	Compounds of metals of the platinum and ruthenium group
.419	Hydrochloric acid	661.9	Other industrial gases. <i>See also</i> 661.71; 662.76
.42	Salt. Rock salt. Sea salt	.93	Compressed and liquefied gases in general
.43	Hypochlorites. Chloride of lime	.94	Liquid air
.44	Chlorates	.95	Oxygen. Nitrogen. Rare gases
.45	Perchlorates and other per- salts	.96	Ozone
.46	Bromine and bromides	.97	Hydrogen peroxide
.47	Iodine and iodides	.98	Hydrogen
.48	Fluorine and fluorides	.99	Carbon dioxide
661.5	Nitrogen compounds	.992	Oxides of nitrogen. Laughing gas. Nitrosylchloride
.51	Ammonia (non-synthetic)	.993	Other gases
.52	Ammonium salts		Phosgene
.53	Synthetic ammonia		Carbon monoxide
.54	Cyanamides. Calcium cyanamide		
.55	Nitrides		
.56	Nitrous acid. Nitric acid		
661.6	Non-metals and their compounds	662	PYROTECHNICS. EXPLOSIVE MATERIALS. COMBUSTIBLES
.61	Sulphates	662.1	Pyrotechnics. Fireworks
.62	Nitrates	.11	Outdoor display fireworks
.63	Phosphorus and its compounds	.12	Signalling devices. Flares
.632	Natural phosphates. Superphosphates	.13	Rescue apparatus
.634	Phosphoric acid	.14	Incendiary devices
.635	Various salts containing phosphorus	.15	Explosives. Blasting devices
.64	Arsenic. Arsenic compounds	.16	Asphyxiating gases. War gases, etc.
.65	Boron compounds	.17	Smoke devices
.652	Borax	.18	Indoor and theatre fireworks
.664	Prussic acid	.19	Other fireworks
.665	Carbides	662.2/.4	Explosive materials
.666	Pure carbon. Soot. Graphite. Lampblack	662.2	Explosive materials in general
.668	Metal carbonyls	.21	Action and properties
.67	Ultramarine	.22	Explosive powders
.68	Silicon. Waterglass	.23	Explosives derived from organic substances
.69	Other non-metals and their compounds. Selenium. Tellurium	.231	Nitrocellulose compounds. Gun cotton
661.7	Organic materials	.232	Nitroglycerin compounds. Dynamite
.71	Simple organic compounds. Hydrocarbons	.233	Gum dynamites and explosive gelatines
.717	Organic nitrogen compounds	.234	Other aliphatic nitro-derivatives
.718	Organic metalloid compounds. <i>Subdivide as</i> 547.24	.235	Nitrated aromatic phenols and alcohols.
.719	Organic sulphur, selenium and tellurium compounds	.236	Picric acid. Lyddite. Picrates
.72	Alcohols and their derivatives	.237	Other aromatic nitro-compounds
.721	Methyl alcohol	.24	Nitrated aromatic nitro-carbons. Trinitro- toluene
.722	Ethyl alcohol	.25	Safety explosives for mines. Low temperature explosives
.723	Halogen derivatives of simple hydrocarbons	.251	Explosives formed during use. Sprengel explosives
.724	Diethyl ether	.252	Sprinkled explosives
.725	Various alcohols		Gaseous explosives. Explosives with gas-forming elements
.726	Ethers	662.3	Gunpowders
.727	Aldehydes and ketones	.31	Properties
.728	Cellulose and its derivatives	.32	Early types
.8	Cellulose esters	.33	Black powder
.729	Organic peroxides		

562.34	Nitrate powders. Chlorate powders. "White gunpowder"	562.93	Furnaces for solid fuel. Fireplaces. Grates. Stoking devices for solid fuels in powder form
.35	Smokeless powders	.94	Furnaces for liquid fuels
.39	Other gun powders	.95	Furnaces for gaseous fuels
662.4	Primary explosives. Detonators	.96	Treatment of smoke and combustion products. Soot deposit
.41	Initiators. Fulminates. Azides	.98	Special heating methods. <i>See also</i> 697
.42	Percussion caps. Ignition devices	.987	Indirect heating by means of oil, water, etc.
.43	Detonators for high explosives	.99	Heat recuperation. Exploitation of natural sources of heat
.44	Primers. Firing tubes for guns	.998	Thermal insulation
.45	Match. Slow match		
.46	Detonating fuses		
.47	Projectile fuses		
.48	Firing devices. Firing mechanisms		
662.5	Fire producing material. Matches	663	TECHNICAL MICROBIOLOGY. BEVERAGES. TOBACCO
.51	Primitive materials. Linstocks. Tinder boxes	663.1/.5	Technical microbiology. Ferment industries. Yeast and spirit manufacture
.52	Kindlers operating by gas or gunpowder	.1	Microbiological industry in general. Tech- nical mycology. Yeast preparation. Tech- nical bacteriology
.53	Matches	.2	Wines. Wine making
.58	Firelighters	.3	Cider and other fruit wines
.59	Various kindlers	.4	Beer. Brewing. Malting
.592	Cigarette lighters. Petrol lighters. Pocket lighters	.5	Alcohol. Distilled liquors. Spirits
.593	Electric lighters		
662.6/.9	Fuel industry. Industrial heating. <i>See also</i> 536; 621.36; 644.1; 66.04; 697	663.6	Water. Drinking and industrial water
662.6	Heat industry in general. Natural fuels	.63	Water purification
.61	Combustion	.631	Physical and mechanical purification. Boiling. Degasification. Adsorption processes. <i>See also</i> 628.16
.614	Thermal balance	.632	Chemical purification
.62	Fuels in general	.634	Distillation
.63	Wood as fuel	.64	Natural and artificial mineral waters
.641	Peat	.67	Edible ice and iced drinks
.642	Lignite		
.65	Less valuable fuels	663.8	Mixed beverages. Syrups. Liqueurs made with fruit. Lemonades
.66	Coal and anthracite	.81	Fruit juices. Syrups
.67	Bituminous shale	.83	Liqueurs made by infusing fruit with alcohol
.68	Crude mineral oils	.85	Synthetic fruit juices
.69	Mineral gas	.87	Alcoholic mixed beverages. Cocktails. Grogs
662.7	Thermally or chemically produced fuels	.88	Tonic waters. Health promoting beverages
.71	Charcoal	663.9	Chocolate. Cocoa. Coffee. Tea. Tobacco
.73	Peat distillation and gasification of less valuable fuels	.91	Chocolate. Cocoa
.74	Distillation of coal. Coke manufacture	.92	Cocoa substitutes. Cola
.742	Low temperature coking	.93	Coffee
.75	Liquid fuels	.94	Coffee substitutes
.757	Colloidal fuels	.95	Tea
.76	Manufactured gaseous fuels	.96	Tea substitutes
.761	Generator gas	.97	Tobacco
.762	Producer gas	.971	Snuff
.763	Water gas	.972	Plug tobacco
.764	Coal gas	.973	Smoking tobacco
.765	Wood, peat, oil gas, etc. Aerogen gas	.974	Cigarettes
.766	Acetylene	.975	Cigars
662.8	Artificial fuels produced by mechanical processes. Briquettes	.976	Cigars and cigarettes of special kinds
.81	Briquettes in general	.99	Narcotics. Opium. Hashish
.82	Lignite briquettes		
.83	Coal briquettes	664	PREPARATION AND PRESERVATION OF SOLID FOODSTUFFS
.85	Compressed charcoal	664.1/.2	Carbohydrate industry
.86	Compressed peat	.1	Sugar
.87	Pulverized fuels	.0	General processes. Refining
.88	Meta, etc.	.11	Cane sugar
.89	Other briquettes, etc.	.12	Beet sugar
662.9	Heating apparatus and methods	.13	Various kinds of sugar other than monoses.
.91	Domestic heating in general. Heating of vehicles. Heating in the open air.	.14	Milk sugar. Maltoses. Javanese sugar
.92	Footwarmers		Sweets. Confectionery
	Industrial heating in general. Draught. Air warming. Temperature regulation. Furnace parts		

664.15	Molasses	664.8.034	Smoking
.16	Glucose. Hexoses. Monoses	.035	Chemical preservation
.161	Dextrine	.036	Preservation by heating
.162	Glucose	.5	Preservation in tins
.2	Starch and starchy substances	.6	Preservation in glass
.22	Potato flour	.037	Preservation by refrigeration. Freezing
.23	Wheat and other grain starches	.047	Preservation by drying
.24	Rice starch	.82/.86	Vegetable preserves
.25	Maize starch	.82	Cereals
.26	Starch of various fruits, of beans, chest-nuts, nuts	.83	Potatoes. Roots and tubers
.27	Other kinds of starch	.84	Greens
.272	Tapioca	.85	Fruits
.273	Sago	.86	Preservation of various vegetable products
.274	Banana starch	.87	Concentrated foods in general
.28	By-products. Halogenated products and other derivatives	.871	Soup preparations. Blocks, etc.
.29	Pectin	.872	Yeast preparations
		.874	Malt preparations
664.3	Edible fats and oils. <i>See also</i> 665.2/.3	.9	Preservation of foodstuffs of animal origin
.31	Edible animal fats	.91	Meat preservation in general
.316	Animal margarine	.92	Dried, smoked, salted meat
.32	Edible animal oils	.93	Tinned meats. Various meat delicacies as preserves
.326	Emulsified edible oils	.94	Frozen meat
.33	Edible vegetable fats	.95	Fish preservation
.336	Plant butter. Vegetable margarine	.957	Fish meal
.34	Edible vegetable oils	.958.2	Fish salads
		.97	Other animal preserves. <i>Subdivide like</i> 637
664.4	Mineral foodstuffs		
.41	Table salt	665	OILS. FATS. WAXES
.44	Salt mixtures	665.1/.3	Vegetable and animal oils, fats and waxes
.48	Mineral nutritive preparations	.1	Oils and fats and their derivatives in general
664.5	Spices and condiments	.11	Generalities
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.54	Cracking and cracking products	.71	Bricks
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.18	Other kinds of glass	.97	Concrete
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.19	Fused silica. Quartz glass	.0	Bleaching, dressing, dyeing and printing
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.21	Crystal glass. Lead glass	.03	Appliances and methods of bleaching, calendering and dyeing
.22	Optical glass	667.1	Bleaching. Mercerizing. Finishing
.23	Strass. Artificial gems	.11	Bleaching
.24	Coloured glass	.12	Washing. Stain removing
.25	Cased or flashed glass	.13	Mercerizing
.26	Milk glass. Decorated glass. Opal glass	.14	Steaming. Damping
.27	Beads. Various small glass articles	.15	Fulling. Teasing
.28	Glass etching and engraving. Glass cutting and grinding	.16	Dressing. Sizing. Impregnating
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.295	Ceramic glazes	.185	Rubber cloth
.297	Engobes. Slips	.187	Linoleum
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.3	Ceramic products in general. Clays	.21	Raw materials. Dyestuffs. Mordants.
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		.22	Pre-treatment
		.24	Dyeing methods
		.25	Dyeing vegetable fibres
		.26	Dyeing animal fibres
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		.28	Subsequent treatment

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.33	Chemical processes. Batiks. Ikat process	.188.9	Shaving soap
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.4	Writing inks	.31	Glues
.5	Printing inks and other drawing and writing media	.317	Gelatin
.03	Pigments. Thickening materials	.32	Hide glue
.52	Printing inks	.33	Bone glue
.53	Stamp pad inks. Hectograph inks	.34	Glue and grease from animal waste
.54	Typewriter inks and ribbons	.35	Fish glue
.55	Lithographic inks	.36	Liquid glue
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.62	Dyes. Pigments. Colours	.392	Proteins
.621	Thickening materials. Dryers	.393	Vegetable adhesives. Glue from seaweeds. <i>See also 664.161; 664.2</i>
.5	Varnish. Conditioning oils	.394	Albumen derivatives
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.623	Preparation, grinding, screening of pigments and colours	.41	Gums
.624	Ready mixed colours	.44	Resins
.6	Protective paints	.442.3	Balsam of Peru
.625	Enamels. Glazed colours	.443.3	Elemi
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.64	Painting. Methods and processes	.47	Resin pitch
.643	Painting on various foundations	.472	Colophony
.65	Artistic and decorative painting	.48	Turpentine. Fir oil
.66	House painting and industrial painting	668.5	Essential oils. Perfumery. Cosmetics
.67	Staining wood. Colouring stone, metal, leather, liquids	.03	Preparation, distillation of essences
667.7/.8	Varnishes. Lacquers. Polishes	.52	Natural essential oils
.7.03	Processes. Implements	.529	Animal essential oils
.71	Raw materials for lacquer	.53	Principal constituents of essential oils
.72	Lacquers made of turpentine and less volatile solvents	.54	Synthetic essential oils
.721	Resin lacquer	.55	Compound perfumes
.728	Cellulose lacquers	.56	Fruit essences
.73	Lacquers made of volatile solvents	.58	Cosmetics
.81	Japan lacquer	.582	Toilet water. Bath salts
.812.5	Sealing wax	.583	Tooth pastes
.82	Black lead. Boot polish. Polishing wax	.584	Toilet creams. Make-up. Powder. Nail-varnish
.89	Other questions	.585	Preparations for the hair
.891	Processes for removing colour and lacquer	.587	Perfumes for burning. Incense
668	VARIOUS ORGANIC CHEMICAL INDUSTRIES	668.7	Tar distillation. Pyroligneous products
668.1	Soaps. Soap industry	.72	Wood tar
.1.0	<i>Special Auxiliary Numbers</i>	.73	Coal tar
.03	Preparation. Moulding	.735	Illuminating oil
.047	Drying	.736	Intermediate oil. Heavy oil. Creosote
.099	Finishing	.737	Anthracene oil. Anthracene pitch
.12/.19	Raw materials and kinds of soap	.738	Tar pitch
.12	Raw materials	.739	Pitch cokes
.13	Soft soap	.74	Derivatives of tar hydrocarbons. Halogenated, nitrated and hydrated products
.14	Preparation of soft soap	.75	Peat tar
.15	Hard soap	.76	Sapropel tar
.16	Marseilles soap	.77	Lignite tar
.17	Preparation of other hard soaps	668.8	Artificial organic dyestuffs
.177.1	Soap in bars	.81	Dyestuffs according to chemical constitution
.2	Soap powder	.811	Azo-, azoxy- and hydrazo-dyestuffs

668.812	Anthracene dyestuffs	669.186	Crucible steel
.813	Acridine. Di- and tri-arylmethane dyestuffs. Phthalic. Pyrones. Oxyketone dyestuffs	.187	Production of steel in electric furnaces
.814	Azines. Oxazines. Thiazines. Safranines. Indophenols	.189	Casting, solidification and cooling
.815	Sulphur dyestuffs	669.21/.23	Precious metals and their alloys
.816	Indigo. Indigoid dyestuffs	.21	Gold
.819	Other dyestuffs	.22	Silver
.82/.89	Various synthetic dyestuffs. <i>Subdivide like 547.2/.9</i>	.23	Platinum and metals of the platinum group
669	METALLURGY	.231	Platinum
	<i>Note: Each of the numbers for the metals mentioned under 669.2/.8 can be subdivided by adding the following digits:</i>	.232	Iridium
	...1 Combined studies on extraction and processing	.233	Osmium
	...3 Separating from the ore	.234	Palladium
	...4 Purification. Refining	.235	Rhodium
	...48 Recovering from residues or scrap	.236	Ruthenium
	...5 Alloys	669.24/.29	Various metals of the fourth, fifth, sixth and eighth groups of the periodic system
	...6 Processing	.24	Nickel
	...7 Applications	.248	Nickel plating
	...8 Metal coating; e.g. 669.22 Silver, 669.225 Silver alloys, 669.228 Silver plating	.25	Cobalt
669-4	Forms in which metal is produced. <i>Special Auxiliary Numbers. Subdivide like 621-4</i>	.26	Chromium
669.0	General Metallurgy. <i>Special Auxiliary Numbers</i>	.268	Chromium plating
.01	Metallurgy in general	.27	Tungsten
.011	Extraction metallurgy	.28	Molybdenum
.9	Non-ferrous metals	.292	Vanadium
.014	Reactions	.293	Niobium
.015	Products and intermediate products	.294	Tantalum
.017	Physical metallurgy in general	.295	Titanium
.9	Non-ferrous metals	.296	Zirconium
.018	Alloys	.297	Hafnium
.9	Non-ferrous alloys in general	.298	Thorium
.04	Thermal processes. Metallurgical furnaces. <i>Subdivide like 66.04</i>	.299	Uranium
.05	Various general metallurgical processes	669.3/.6	Non-precious, heavy industrial metals
.054	Refining	.3	Copper
.09	Various metallurgical processes. <i>Subdivide like 66.09</i>	.35	Copper alloys
669.1	Iron. Steel	.5	Brass
.11	Iron and iron-carbon alloys	.6	Bronze
.12	Pure iron	.71	Aluminium bronze
.13	Cast iron	.386	Copper plating
.14	Steel. Special carbon steels	.4	Lead
.018	Steel classified according to properties	.5	Zinc
.15	Iron and steel alloys	.586	Zinc plating. Galvanizing
.16	Manufacture of pig iron and cast iron	.6	Tin
.162	Pig iron production	.686	Tin plating
.2	Blast furnaces	669.7/.8	Other metals and metalloids, pure or used for alloys
.163	Foundry pig iron	.7.0	Light metals in general
.168	Preparation of ferro-alloys	.017	Light metals
.17	Manufacture of pure iron. Electrolytic iron	.018	Light alloys
.18	Steel manufacture	.71	Aluminium
.181	Direct steel processes	.719	Aluminothermy
.182	Cementation and similar processes	.721	Magnesium
.183	Open hearth steel. Siemens-Martin processes	.725	Beryllium
.1	Puddling	.73	Cadmium
.2/.4	Open hearth processes, acid and basic	.74	Manganese
.5	Multiplex processes	.75	Antimony
.184	Converter steel	.76	Bismuth
.1	Acid Bessemer process	.77/.78	Alloy forming metalloids
.2	Basic Bessemer process	.774	Polonium
		.775	Sulphur
		.776	Selenium
		.777	Tellurium
		.778	Arsenic
		.779	Phosphorus
		.781	Boron
		.782	Silicon
		.783	Germanium
		.784	Carbon
		.786	Nitrogen
		.787	Oxygen
		.788	Hydrogen

669.791	Mercury
.793	Scandium
.794	Yttrium
.848	Masurium
.849	Rhenium
.85/.86	Rare earth metals. <i>Subdivide like 546.65/.66</i>
.871	Gallium
.872	Indium
.873	Thallium
.88	Alkali metals
.882	Potassium

669.883	Sodium
.884	Lithium
.885	Rubidium
.886	Caesium
.89	Alkaline-earth metals
.891	Calcium
.892	Strontium
.893	Barium
.894	Radium

669.9	Assaying
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67 Manufacture and Processing of Simple Materials

671	ARTICLES OF PRECIOUS METAL, OF PRECIOUS STONES AND OF METALS OTHER THAN IRON AND COPPER. Precious metal industry
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671.1	Jewellery. Gold and silver work
.11	Goldsmithery. Silversmithery
.12	Jewellery
.13	Useful objects of precious metal. Chain purses. Watch chains
.14	Gilded and silvered goods
.15	Precious stones
.152	Diamond industry
.16	Artificial jewels
671.2	Small articles of various alloys. Fancy articles
671.4	Money. Coins. Medals. <i>See also 737</i>

672	ARTICLES OF IRON AND STEEL
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.1	Articles of cast iron or cast steel. Foundry work for building. Art foundry work. <i>See also 621.74</i>
.3	Plate processing. Forged articles. Objects of soldered, riveted, embossed and galvanized iron
.4	Tinsmithery. Utensils of white tin, tinned iron and enamelled tin
.46	Cans for preserved food
.6	Chains. Anchors
.7	Cutlery. Spoons and forks
.71	Knife manufacture. Cutting instruments
.715	Razor manufacture
.73	Small apparatus for sharpening
.76	Spoon and fork manufacture
.8	Small metal articles
.81	Pins
.82	Needles
.86	Pen nibs
.87	Metal buttons
.886.2	Nails
.9	Various metal goods. Metal furniture. Umbrella frames. Metal boxes

673	OBJECTS OF VARIOUS METALS OTHER THAN IRON AND PRECIOUS METALS
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.1	Objects of copper and of copper alloys in general
.2	Objects of repoussé copper and of brass
.3	Artistic foundry work. Artistic bronze objects
.4	Electroplated products
.5	Bells. Bell founding
.6	Pipe fittings. Brass taps
.7	Other brass fittings. <i>Subdivide like 621.647</i>
.8	Objects of tin, lead, zinc, light metals, etc.
.83	Tubes

674	WOOD INDUSTRY
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674.0	Processes and machinery for wood industry. <i>Special Auxiliary Numbers</i>
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.02	Operations in wood working
.03	Kinds of wood
.04	Steaming. Drying. Impregnating. Pressing
.05	Machinery and appliances for wood processing
.06	Products of the wood industry
.07	Surface treatment of wood
.08	By-products. Waste

674.1/.7	Various kinds of woodwork and timber products
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.1	Carpentry. Building and ships' carpentry
.2	Joinery
.21	Joinery for building
.23	Carpentry for furniture making
.24	Wood veneer. Block-board. Plywood
.25	Woodwork for vehicles and vessels
.26	Trellis. Railings
.3	Cartwrighting
.4	Coopery
.5	Box making. Small wooden objects
.6	Packing case making. Wooden baskets
.7	Wood bending and turning. Pole making

674.8	Wood waste. Cork. Peat
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.81	Compressed wood. Artificial wood
.82	Wood wool
.83	Cork
.84	Artificial cork
.88	Peat litter. Peat slabs

675	LEATHER INDUSTRY. LEATHER DRESSING
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675.0	Processes and machinery for the leather industry. <i>Special Auxiliary Numbers</i>
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.02	Dressing of raw leather
.03	Source of the leather
.04	Auxiliary materials
.05	Leather preparation and dressing machines
.08	By-products

675.1/.7	Various kinds of leather
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.1	Hungarian tawing
.2	Tawing. Soft leather
.3	Morocco leather
.4	Buffing. Hard leather. Parchment
.6	Pelts and furriery
.7	Straps. Lacquered leather. Ornamental leather

- 675.8 **Processing of waste and by-products of the leather industry.** Artificial leather. Related industries. Processing of animal hair, feathers, gut, bone, horn, ivory, tortoiseshell, whalebone, fish scales, etc. *See also* 677; 679.5
- 675.9 **Leather dyeing**
- 676 **PAPER AND CARDBOARD INDUSTRY**
- 676.1/.2 **Paper manufacture**
- .1 Preparation of pulp
- .0 Generalities. *Special Auxiliary Numbers*
- .02 Processes. Crushing of fibres. Boiling, etc.
- .03 Raw materials
- .04 Auxiliary materials
- .05 Apparatus. Machinery. Hollanders
- .06 Products
- 676.11/.19 Division of paper material preparation according to raw materials
- .11 Rags
- .12 Old paper
- .13 Alfalfa and esparto grass
- .14 Straw
- .15 Wood material
- .16 Cellulose
- .17 Various grasses
- .18 Other fibres
- .19 Mixtures of fibres
- .2 Paper manufacture proper
- .2.0 Processes and appliances. *Special Auxiliary Numbers*
- .02 Processes
- .05 Appliances. Equipment. Paper machines
- 676.3/.5 **Kinds of paper**
- .3 Writing, printing, drawing paper, etc.
- .4 Paper for industrial and household purposes
- .5 Coloured papers. Wallpaper. Fancy paper
- 676.6/.7 **Cardboard**
- .6 Millboard and cardboard manufacture in widths
- .7 Shaped and pressed cardboard. Corrugated cardboard
- 676.8 **Paper wares. Cartons**
- .81 Objects cut out of thin paper. Paper band. Tickets. Checks, etc.
- .82 Cut out and folded paper
- .821 Bags
- .822 Envelopes
- .823 Portfolios
- .828 Cups
- .83 Tubes, spools, holders, etc., of paper or thin cardboard wound and glued
- .84 Cardboard boxes and other objects
- .86 Papier maché objects
- 677 **TEXTILE INDUSTRY**
- 677.0 **General questions. *Special Auxiliary Numbers***
- .01 Theory. Textile engineering
- .02 General processes
- .021 Fibre preparation
- .022 Spinning
- .024 Weaving
- .03 Raw materials
- .04 Auxiliary materials
- .05 Textile machinery
- .051 Preparation machines. Scutchers. Degrainers. Openers. Crushers. Hacklers. Carding. Combing. Stretching
- 677.052 Spinning machines. Twisting machines
- .053 Reels. Spools
- .054 Weaving machines
- .058 Parts and auxiliary machines for weaving
- .06 Textile products. Fabrics
- .08 Waste. By-products
- 677.1/.5 **Kinds of fibre and products prepared therefrom**
- .1 Vegetable fibres in general. Bast fibres
- .11 Flax. Linen
- .12 Hemp
- .13 Jute
- .14 Woody stem fibres of dicotyledons. Suni
- .15 Java jute
- .15 Non-woody stem fibres of dicotyledons
- .151 China grass
- .16 Leaf fibres
- .161 Manilla
- .162 Aloe. Sisal
- .17 Various stem fibres
- .18 Fruit fibres
- .181 Coconut
- .19 Various plant fibres. Barks. Pine needles
- .194 Peat fibres
- .2 Plant hairs. Cotton. Kapok, etc.
- .21 Cotton
- .22 Various seed hairs
- .23 Fruit hairs. Kapok
- .3 Animal fibre materials. Hair. Wool, etc.
- .31 Sheeps' wool
- .32 Llama wool
- .322 Alpaca
- .33 Goats' hair
- .332 Cashmere
- .334 Mohair
- .34 Camel hair
- .35 Various kinds of hair. Bristle, etc.
- .358 Horsethair
- .36 Other animal fibres
- .365 Whalebone. Quills
- .38 Artificial wool. Mungo. Shoddy
- .4 Fibres existing as continuous threads. Sil
- .41 Natural silk in general
- .44 Schappe. Bourette
- .46 Artificial silk. Cellulose silk
- .461 Nitrocellulose silk
- .462 Copper ammoniac silk
- .463 Viscous silk
- .464 Acetate silk
- .47 Synthetic fibres not derived from cellulose
- .472.4 Casein thread, etc.
- .48 Artificial staple fibres
- .486 Cellulose wool. *Subdivide like 677.4*
- .487.24 Casein wool
- .5 Other fibres. Plaiting
- .51 Natural mineral fibres
- .52 Artificial mineral fibres
- .53 Metal tissues. Expanded metal
- .54 Plait. Straw. Cane
- .55 Elastic fibres. Rubber fabrics
- .57 Paper spinning and weaving
- 677.6/.9 **Textile products of special form**
- See also* 746
- .6 Mixed fabrics. Special fabrics
- .61 Figured fabrics. Damask. Pile
- .62 Brocade. Velvet
- .62 Filled fabrics. Cloth. Flannel. Sw
- .63 Blankets
- .63 Felt
- .64 Carpeting
- .65 Gauze. Lace. Tulle
- .66 Knitting. Crochet. Netting. Round

677.67	Tubular fabrics
.7	Lengthy textile products. Rope making. Cable manufacture. Tape and braid
.7.08	Forms of knot
.71	Rope making
.72	Metal cables. Wire ropes
.73	Compound cables. Telephone cables. Submarine cables
.74	String manufacture
.75	Shoe laces. Ribbon. Tape
.76	Passenterie
.77	Embroidery work
.9	Other textile products. Wadding. Vestas. Tow. Stuffing for upholstery

678 RUBBER INDUSTRY

678.0	General questions. Special Auxiliary Numbers
.01	Properties of rubber, rubber mixtures, etc.
.02	Processes for preparation of rubber and rubber products
.021	Coagulation
.028	Vulcanization
.04	Auxiliary materials. Filling materials. Dyes. Accelerators. Anti-oxydants
.05	Machines and apparatus
.053	For plastic form modification. Rollers. Calenders
.054	For non-plastic form modification. Devils. Cutting machines
.057	Machines and appliances for latex processing
.058	Vulcanization apparatus
.06	Various rubber mixtures and products
.061	Fluid and semi-fluid mixtures
.062	Non-vulcanized products
.063	Vulcanized products
.064	Hardened products

678.1/.4 Rubber and ebonite

.1	Rubber
.11	Latex
.13	Crude rubber. Crêpes. Sheets
.14	Various rubber objects. Sheets. Rings. Toys. Sponge. <i>Subdivide like 621-4</i>
.15	Rubber tyres
.16	Rubber coated fabrics
.17	Various articles. Rubber shoes. Rubber gloves. Rubber floor-covering, etc.
.18	Solution and objects manufactured therefrom
.19	Products from latex
.4	Ebonite

678.5 Gutta percha and balata

.51	Gutta percha
.52	Balata
.53	Chewing gum

678.7 Products allied to rubber

.72	Artificial rubber
.73	Various rubber substitutes
.75	Reconstituted rubber
.77	Synthetic rubber
.78	Rubber derivatives
.782	Chlorinated rubber

678.9 Various rubber problems. Distillation of rubber

679 VARIOUS OTHER INDUSTRIES FOR HOMOGENEOUS PRODUCTS

679.1/.4 Natural, processable materials

.1	Amber. Meerschaum
.2	Mother of pearl
.3	Coral
.4	Corozo. Ivory nut

679.5 PLASTICS INDUSTRY IN GENERAL

.51	Celluloid
.52	Various plastics based on cellulose
.53	Plastics based on celluloid waste and cellulose esters
.54	Plastics based on proteins
.55	Plastics based on natural resins
.56	Plastics based on synthetic resins, particularly polycondensation resins
.562	Phenol-aldehyde resins. Phenoplasts
.57	Plastics based on other synthetic resins, particularly polymerization resins
.58	Plastics based mainly on paraffins, waxes, etc.
.59	Plastics based on other materials

679.8 Stone industry. Dressing of natural stone. Stone cutting

.8.0	<i>Special Auxiliary Numbers</i>
.02	Processes
.05	Appliances. Implements
.84/.89	Processing of various kinds of stone. Various products
.84	Stone objects of various forms. <i>Subdivide like 621-4</i>
.85	Natural stone for building trade
.86	Various kinds of non-precious stone. <i>Subdivide like 553.6</i>
.87	Costly kinds of stone. Semi-precious stones. Malachite. Jade, etc.
.88	Dressing of artificial stone. <i>Subdivide like 666.8</i>
.89	Other kinds of stone. Diamonds and drawing stones

68 Manufacture of Complex Objects

681 FINE MECHANISMS. CLOCKS AND WATCHES. MUSICAL INSTRUMENTS

681.1	Wheelwork and driving mechanisms
.11	Watches. Clockwork. Chronometers. <i>See also 529.78</i>
.12	Consumption meters. Gas meters. Water meters. Speedometers. Taximeters
.13	Automatic machines for sales, amusement, etc.
.14	Calculating instruments. Counting mechanisms

681.141	Arithmetical instruments. Arithmometers
.142	Calculating instruments. Equation solving instruments
.143	Logarithmic instruments. Slide rules
.17	Control mechanisms and registers
.171	Cash registers
.172	Coin, selecting, sorting and exchanging apparatus
.173	Printing, controlling and distributing machines. Franking machines. Ticket machines
.174	Apparatus for controlling workmen and employees

1.175	Various time-control apparatus. Time and date stamps	681.88	Directional listening. Devices for measuring sound. Listening devices
.176	Lottery and ballot contrivances. Totalizators	.892	Apparatus for registering vibrations
.177	Statistical mechanisms. Punched card machines	681.9	Engraving and sculpting machines. Reproduction of relief figures
.5	Card sorting		
.6	Tabulating	682	SMALL FORGE WORK. BLACK-SMITHERY. FURNISHING AND BUILDING IRONWORK
.178	Mail sorting machines	.1	Farriery
.18	Sorting machines in general. Cryptographic machines	.3	Edge-tools
31.2	Instrument making. Instrumentology	.4	Various forged tools. Hammers. Pincers, etc.
	<i>Note: The manufacture of instruments is classified under 681.2 with sign of Relation : and specific number for each instrument. E.g. 681.2:526.33 Manufacture of surveying instruments</i>	.5	Furnishing ironwork
		.6	Building ironwork
.08	Special Auxiliary Numbers	683	HARDWARE. IRONMONGERY. LAMPS AND STOVES
	Principles of measurement and of construction of instruments	683.1/.4	Ironmongery. Locks. Weapons
.081	Units. Constants	.1	Hardware and ironmongery in general
.082	Principles of measurement. Use of mechanical, optical, electrical and other physical phenomena	.3	Locks. Suspension and closure devices
		.31	Bolts
.083	Methods of measurement. Compensation method. Zero method	.33	Locks
		.34	Safes
.084	General construction of instruments	.35	Catches. Chains. Espagnolettes
.085	Indicating devices. Scales	.36	Hinges
.087	Observation. Recording	.37	Various hanging and closing devices for doors and windows
.088	Errors. Corrections	.4	Gunsmiths' craft. <i>Subdivide by using the sign of Relation : with the subdivisions of 623.44</i>
.089	Coupling. Gauging. Calibration. Testing		
.26	Weighing machines. Balances. Steelyards. Weights	683.5/.9	Various household hardware. Lamps and stoves
681.3	Apparatus in blown glass	.5	Containers and other utensils for pouring or drinking purposes. Closing and filling devices. Tapping devices. Corkscrews
681.4	Optical instruments. Spectacles. Telescopes. Binoculars. Microscopes	.8	Lamps. Burners. Kindling devices. Gas fitters' materials
.42	Lenses	.84	Lamps. Lamp fittings
.43	Mountings. Frames	.85	Reflectors. Shades
.45	Trial cases	.86	Containers and devices for feeding lamps. Wicks
681.6	Manifolding and copying machines. See also 655 Printing	.868	Incandescent mantles
.61	Typewriters. Shorthand and typesetting machines	.87	Burners
.612	Ordinary typewriters	.88	Kindling and extinguishing devices
.613	Special typewriters. Typewriters for embossing characters for the blind. Stenographic machines	.9	Stoves. Grates. Ranges. Heating appliances. Hot water apparatus
		.93	Open grates
.614	Typesetting machines in general	.94	Stoves. Oil, gas, electric fires
.615	Printers' type. Type. Type casting	.95	Kitchen ranges
.616	Tools and machines for typesetting	.96	Portable and small heating appliances. Braziers
.617	Methods of making and reproduction of printing forms	.97	Geysers. Hot water apparatus
.62	Printing and copying machines and presses. Mimeographs. Cyclostyles. Folding machines. Perforating machines	.98	Pokers, tongs and other hardware
.64	Other manifolding machines	684	COACHBUILDING. ORNAMENTAL FURNITURE MAKING. CABINET MAKING. SOFT FURNISHING. UPHOLSTERY
.65	Various accessories		
581.8	Technical acoustics. Musical instruments. Recording and reproduction of sound	.2	Coach work. Coach building
.81	Musical instruments in general. Instruments played non-mechanically	.5	Cabinet makers' work
.816/.819	<i>Subdivide like 786/789; e.g. 681.817 String instruments</i>	.6	Inlaying and marquetry. Veneering
		.7	Soft furnishing. Upholstery
.82	Mechanical instruments	685	LEATHER WORK. ACCOUTREMENTS. TRAVEL, SPORTS AND RECREATION REQUISITES. See also 79
.83	Auxiliary devices. Metronomes. Stands		
.84	Sound recording and reproduction. Talking machines. Dictaphones. Gramophones	685.1/.4	Leather work. Harness. Footwear. Walking gear. Gloves
.85	Records, disks, cylinders and other accessory parts	.1	Saddles. Spurs. Harness

685.2	Leather goods. Various equipment in leather and material	687	CLOTHING. READYMADE CLOTHING. SEWING MACHINES. TOILET ARTICLES. BRUSHES. <i>See also</i> 645.48; 646; 685.3/.4
.3	Footgear. Walking gear		Generalities
.31	Boots and shoes		Sewing machines and various sewing accessories
.32	Clogs	.0	Clothing fasteners
.36	Skates. Roller skates. Skis	.053	Readymade clothing industry. Tailoring
.37	Stilts. Jumping poles		Linen goods. Underwear
.38	Crutches. Wooden legs and similar appliances	.078	Accessories. Stockings. Collars. Cuffs
.4	Gloves. Mittens	.1	Household linen
685.5/.7	Travel, walking and sports equipment	.2	Knitted goods. Ties. Braces. Belts, etc. <i>See also</i> 685.4
.5	Travel equipment	.25	Hat manufacture. Headgear
.51	Travel goods of leather and fabric. Trunks. Bags. Rucksacks	.26	Hairdressing, manicure and pedicure requirements. Toilet articles
.53	Camping equipment. Tents, hammocks, etc.	.3	Artificial fur
.54	Straps and other personal equipment	.4	Brush manufacture. Brooms
.55	Umbrellas. Parasols. Walking sticks	.5	
.6	Sports goods. Gymnastic apparatus	.8	
.62/.64	<i>Subdivide like</i> 796.2/.4	.9	
.65	Equipment for ice rinks, toboggan runs, racecourses	688	FANCY GOODS. TOYS. DECORATION WORK
.68	Equipment for athletic sport, for boxing, etc.	.1	Ivory goods
.7	Equipment for climbing and swimming	.2	Buttons and button manufacture
685.8	Requisites for various games	.3	Satchels. Purses. Cases. Small leather goods. Sheaths
.81	Card games	.4	Artificial flowers, plants and fruit. Feathers and hair work
.82	Games of chance. Dice. Roulettes, etc.	.5	Fans
.84	Board games. Chess and draughts	.6	Lampshades. Screens
.85	Puzzles	.7	Toys. Articles for entertainment. Joke articles
.86	Party games	.72	Toys. Dolls. Mechanical toys. Toy soldiers
.87	Billiards	.73	Children's musical instruments
686	BOOKBINDING. GILDING. SILVERING. MIRRORS AND FRAMES. GLAZIERY. WRITING AND OFFICE NECESSITIES	.74	Properties for theatres, panoramas, circuses, etc. Scenery
.1	Bookbinding	.75	Joke articles. Masquerade articles
.4	Gilding. Silvering. Bronzing. Metal veneering	.76	Street decorations and illuminations for processions and ceremonies
.5	Frame making	.77	Equipment for fairs. Swings. Merry-go-rounds
.6	Glazery	.78	Decorative work. Decalcomania. Niello. Reliefs. Surface decoration
.7	Mirrors	.79	Various decorative effects
.8	Office necessities. Office articles. Calendars. School necessities	.9	Various small articles
.83	Dossiers. Letter holders	.92	Various knick-knacks. Holders and carriers for flowers, etc.
.84	Card systems	.93	Smokers' requisites. Pipes
.863	Penholders. Fountain pens. Pencils	.94	Match boxes and holders
.87	Office furniture	.95	Fasteners for boxes, cases, etc.
.88	Drawing and painting articles	.96	Money boxes

69 Building Industry and Trades. Building Construction

See also 624/628 and 71/72

69.00	Building practice and industry	69.009.187	State control of building. Licences, priorities, etc.
	<i>Common Subdivisions of Point of View</i>		
.001.3	Building specifications	69.02/.07	Structural elements of buildings, location, methods of construction. Structural calculations
.003.1	Economic aspect of building		<i>Special Auxiliary Numbers. Subdivide as</i> 624.02/.07. <i>E.g.</i> 69.026 Stairs
.12	Estimates. Quantities. Costs		
.2	Financial and legal aspect. Tenders. Contracts. <i>See also</i> 333.32; 333.6; 334.1; 347.26; 347.454.3; 351.712		
.008	Organization and management of building contracts	691	BUILDING MATERIALS
.009.18	Official control of building		<i>See also</i> 620.1. Properties
.182	Building regulations aspect	.1	Materials of organic origin
.183	Building supervision, control, inspection	.11	Wood, timber. <i>See also</i> 674.03

91.14	Paper. <i>See also</i> 676	694.3/.5	Framing and roof work. Wooden beams, columns and posts, etc.
.15	Other vegetable fibres	.6	Joinery: Doors. Windows. Floors. Skirtings. Panelling, etc.
.16	Bituminous materials. Asphalt	.8	Wooden staircase construction. <i>See also</i> 69.026
.18	Materials of animal origin		
.2	Natural stones. Slate. Marble. <i>See also</i> 553.5; 679.8	695	Roofing. Slating. Tiling
.3	Concretes. Agglomerates. Mortars. Composite materials		Roofing materials. <i>Subdivide as</i> 691. E.g. 695.7 <i>Metal roofing</i>
.31	Artificial stone agglomerates		
.32	Concretes. Reinforced concretes. <i>See also</i> 666.9	696/698	EQUIPMENT. SERVICES
.33	Various agglomerates and composite materials. Plastics. Wall-boarding	696	Equipment in general. Plumbing. Sanitary installation. <i>See also</i> 682; 683
.4	Clay products and building ceramic products. Pisé. Terra-cotta. Stoneware. Brick. <i>See also</i> 666.3/.7	.1	Plumbing. Sanitary installation. Fittings. <i>See also</i> 628.6
.5	Limes. Mortars. Cements. Plasters. Binding materials. Mastics. <i>See also</i> 666.8/.9	.2	Gas installation
.51	Limes	.3	Steam installation. <i>See also</i> 621.18
.52	Sand. Gravel. Hardcore	.4	Hot water installation
.53	Mortars	.5	Pneumatic installation
.54	Cements	.6	Electric wiring of buildings
.55	Plasters		<i>See also</i> 621.315/6 <i>Electrical installation</i> ; 628.9 <i>Illumination</i>
.56	Mortar rendering	697	Heating and ventilation
.57	Size coats and paints	.1	General theory. Heating space. Heat losses. Insulation. Heating with open fire places
.58	Flexible mastics	.2	Heating by incandescent fires or stoves. <i>See also</i> 683.93/.94
.59	Other materials	.3	Central heating. Hot air heating
.6	Glass. <i>See also</i> 666.1	.4	Hot water heating
.7	Metals. Iron. Steel. <i>Subdivide as</i> 669	.5	Steam heating
.8	Building components. Units of construction	.7	Other methods. Electric
.88	Fixing devices. Anchors. Ties. Dowels. Wedges. Nails, etc.	.8	Chimneys
		.9	Ventilation. Air-conditioning. Cooling
693/695	SITE CONSTRUCTION. ASSEMBLY. VARIOUS TRADES	698	Various other building trades. Painting. Glazing. Paperhanging
693	Masonry construction in stone, brick, concrete and agglomerates. Plasterwork. Tiling	.1	Painting of buildings. <i>See also</i> 667.6/.7
.1	Stonemasonry. <i>See also</i> 679.85	.3	Glazing
.2	Bricklaying	.6	Paperhanging
.3	Construction in pisé or terra-cotta	.7	Carpets. Tapestry. Linoleum
.4	Construction in hollow bricks, etc.	.8	Leather. Rubber
.45	Assembly of structures of large prefabricated components	.9	Refuse disposal installations. <i>See also</i> 628.4
.5	Concrete construction. Construction in various artificial stones		
.55	Reinforced-concrete construction	699.8	PROOFING, INSULATED AND PROTECTIVE CONSTRUCTION
.6	Plastering and other finishes. Ceiling construction	.81	Fire-resisting construction. <i>See also</i> 614.84
.7	Paving work. Tile laying. <i>See also</i> 625.8	.82	Water-proof, damp-proof construction. Drying
.9	Framed construction. Construction of various combinations of materials. <i>See also</i> 624.93/.94	.83	Storm-proof construction
.95	Concrete-framed construction	.84	Construction proof against earthquake and vibration. <i>See also</i> 534.83 <i>Sound proofing</i>
.97	Steel-framed construction	.85	Air-raid protective construction. Shelters
694	Carpentry. Joinery. <i>See also</i> 674	.86	Thermal insulation
.1	Building construction in wood in general	.87	Measures against dust, dry-rot, insects, vermin
.2	Assembly. Joints of woodwork	.88	Measures against various influences: light electricity, magnetism

7 FINE ARTS. APPLIED ARTS. ARCHITECTURE. ENTERTAINMENT. SPORT

See also 069; 176.7; 246; 291; 343.533; 347.78; 351.85; 351.852/.854; 39; 571; 655; 8; 8.085; 929.6; 930.26

- 7.0 **GENERALITIES.** *Special Auxiliary Numbers. These Auxiliary Numbers are for application to 71/76 and 78/79, not to 77; e.g. 75.033.5(493) Gothic in South Netherlands painting*
- 7.01 **Aesthetics**
- 7.02 **Art technique**
 - .021 Working methods. Processes
 - .022 Tools, apparatus, installations
 - .023 Materials
 - .024 Accessory materials
 - .025 Care, maintenance and restoration of works of art
 - .026 Copies. Reproductions. Facsimiles. Casts. *See also* 7.061
- 7.03 **Periods. Styles.** *The various styles are specified by means of the Common Auxiliary Numbers of Place and Time*
 - .031 Styles of primitive peoples. *See also* 571
 - .032 Styles of antiquity. Ancient Oriental styles. Classical styles. *See also* 571.8
 - .033 Mediaeval styles
 - .2 Byzantine
 - .3 Islamic
 - .4 Romanesque
 - .5 Gothic
 - .034 Modern styles up to 1830
 - .1 Renaissance in general
 - .7 Baroque
 - .8 Rococo
 - .035 Styles between 1830 and 1900
 - .036 Modern, contemporary styles
 - .039 Styles considered from various aspects
 - .2 Conventional styles
 - .3 Utilitarian styles
 - .5 Exotic styles
- 7.04 **Subjects for artistic representation. Iconography. Iconology.** *See also* 246
 - .041 Human beings. Portraits. Genre
 - .042 Animals. Fabulous animals
 - .043 Plants. Trees. Flowers. Fruits
 - .044 Historical representations. War scenes. *See also* 394
 - .045 Symbols. Allegories. Dance of death
 - .046 Mythological and religious representations. *See also* 291
 - .047 Landscapes. Seascapes
 - .048 Linear ornament. *See also* 744
 - .049 Other subjects
- 7.05 **Practical application of art and design**
- 7.06 **Various questions**
 - .061 Counterfeiting. *See also* 7.026
 - .067 Various types of art. Folk art. Official art, etc. *See also* 398
- 7.07 **Kinds of art occupation.** *See also* 92(A/Z)
 - .071 Artists
 - .072 Art experts. Art theorists, critics, historians. *See also* 8.09
 - .072.5 Scientific appraisal
 - .073 Art collectors
 - .074 Art patrons. Patronage of art by private persons
 - .075 Art dealers. Antiquarians. Trade in art. Agents. Theatrical directors. Impresarios
 - .078 Official patronage of fine art. Governmental patronage of art. *See also* 343.533; 347.78; 351.854

- 7.08 **Various forms of art work. Composition. General form**
- 7.09 **Other questions**
 - .091 Performances
 - .092 Competitions. Awards.

71 Town and Country Planning. Landscape and Garden Design. Preservation of Amenities

- 711 **TOWN AND COUNTRY PLANNING. LAND UTILIZATION**
 - 711.1 **Generalities. Development. Planning schemes.** *See also* 912
 - .2 Planning of units larger than regions. National planning
 - .3 Regional planning
 - .4 Town planning. Built-up areas
 - .5 Zoning. Specialized areas
 - .6 Site-planning. Grouping
 - .62 Detached and terrace houses
 - .63 Apportionment. Division of sites
 - .64 Alignments. Frontage line. Density
 - .65 Height of buildings
 - .7 Traffic routes: road, rail, water and air. *Subdivide by sign of Relation : and appropriate subdivisions of* 624; 625; 626; 656
- 712 **LANDSCAPE DESIGN. GARDENS.** *See also* 58; 634.9; 635
 - .1 Types: formal, landscape, etc.
 - .2 Parks and gardens, public and private
 - .3 Garden planning, lay-out
 - .4 Vegetation. Trees, plants and lawns. *See also* 58; 634.9
 - .5 Water features. Lakes, fountains, etc.
 - .6 Structural features. Pavilions, bridges, steps, etc.
- 718 **Cemetery design.** *See also* 726.8; 73
- 719 **PRESERVATION OF RURAL AND URBAN AMENITIES. NATURE RESERVES. NATIONAL PARKS. NATURE MONUMENTS**
 - .3 Preservation of urban amenities
 - .6 Nature reserves and national parks

72 Architecture

See also 333.6; 347.24; 347.56:72; 351.71; 613.5; 624/628; 658.2; 69; 711/719; 74

- 72.0 **GENERALITIES.** *Special Auxiliary Numbers*
 - .01 General aesthetics of architecture
 - .011 Plan and section
 - .012 Elevation
 - .03 Periods and styles of architecture. *Subdivide like* 7.03

- 725 **CIVIL AND INDUSTRIAL ARCHITECTURE. PUBLIC BUILDINGS. BUSINESS AND INDUSTRIAL BUILDINGS.** *See also* 71
- 725.1 **Public administrative and public service buildings.** *See also* 725.5
- .11 Houses of Parliament. Capitols, etc.
 - .12 Ministries. Government offices
 - .13 Town halls. Municipal buildings. General buildings for public services
 - .14 Revenue buildings. Customs houses, mints, etc.
 - .15 Law courts. Courts of Justice. Tribunals
 - .155 Records offices
 - .16 Post, telegraph and telephone buildings
 - .17 Royal, presidential, official residences
 - .18 Military and police buildings. *See also* 355.7; 623.47
 - .19 Other public service buildings. Fire stations, power stations, etc.
- 725.2 **Commercial buildings. Offices**
- .21 Shops. Departmental stores
 - .22 Mixed buildings consisting of shops, offices and housing accommodation
 - .23 Office buildings in general. Insurance buildings. *See also* 651.1
 - .24 Banks. Savings banks
 - .25 Exchange buildings
 - .26 Market halls. *See also* 381.1; 624.9
 - .27 Livestock markets
 - .28 Slaughter houses
 - .29 Other commercial buildings
- 725.3 **Buildings for transport and storage**
- .31 Station buildings.
 - .32 Goods stations
 - .33 Various railway buildings. *See also* 625.26; 656.2
 - .34 Port and harbour works. Landing stages. Docks. Lighthouses. *See also* 627; 656.6
 - .35 Warehouses. Wharves. *See also* 624.9
 - .36 Silos
 - .37 Vehicles and vessels, architectural aspect. *See also* 625.2; 629.1
 - .38 Garages. Filling and service stations. *See also* 728.9
 - .39 Airport buildings. Hangars. *See also* 624.9; 629.139; 656.7
- 725.4 **Industrial buildings. Mills, works, factories, etc.** *Subdivide by means of sign of Relation : ; e.g. 725.4 : 663.4 Breweries. Malthouses. See also* 621.7
- 725.5 **Hospitals. Social welfare buildings**
- .51 Hospitals for sick and wounded. Maternity homes
 - .52 Mental hospitals
 - .53 Establishments for mental defectives
 - .54 Institutions for the blind and the deaf and dumb
 - .55 Poor houses. Workhouses
 - .56 Homes for the aged
 - .57 Children's welfare buildings. Infant, child, ante-natal clinics
 - .58 Foundling hospitals
 - .59 Other homes and refuges
 - .599 Animal refuges and hospitals
- 725.6 **Prisons. Reformatories, etc.**
- 725.7 **Restaurants. Baths. Park buildings**
- .71 Restaurants. Cafés. Milk bars, etc. *See also* 728.4/.5
 - .72 Public houses. Bars. *See also* 728.5
- 725.73 Baths. Thermal and medicinal baths
- .74 Swimming baths, covered and open-air
- .75 Various buildings for watering places, and health resorts. Casinos. Kursaals
- .76 Various park and garden buildings. Bandstands, etc. *See also* 712
- 725.8 **Buildings for public entertainment and recreation**
- .81 Music rooms. Audition chambers. *See also* 725.76
 - .82 Theatres, opera houses, cinemas, dance halls, etc.
 - .824 Concert halls
 - .826 Amphitheatres for various amusements. Stadia
 - .83 Assembly and lecture halls. Village halls
 - .84 Buildings for ball games. Billiards rooms, etc.
 - .85 Gymnasias. *See also* 685.64
 - .86 Cycle, motor and ice rinks
 - .87 Buildings for aquatic sports
 - .88 Riding schools
 - .89 Other recreation buildings. Race courses. Rifle ranges. Tennis courts
- 725.9 **Various public buildings**
- .91 Exhibition buildings. *See also* 061.4
 - .92 Temporary buildings. Huts
 - .94 Monuments. Triumphal arches. *See also* 726.8; 73
 - .95 Monumental bridges. *See also* 624.2/.8
 - .96 Gates and walls (Town gates and walls). *See also* 623.1
- 726 **ECCLESIASTICAL ARCHITECTURE. SACRED ARCHITECTURE.** *See also* 246/247; 72.03; 729.9
- .1 Temples. Sanctuaries. Pagodas
 - .2 Mosques. Minarets
 - .3 Synagogues. Jewish temples
 - .4 Chapels
 - .5 Churches
 - .6 Cathedrals
 - .7 Monasteries. Convents. Abbeys, etc.
 - .8 Funerary architecture. Tombs, crypts, memorials, etc.
 - .9 Other religious buildings: parsonages, etc.
- 727 **BUILDINGS FOR EDUCATION, SCIENCE, ART, ETC.**
- .1 Schools. Elementary and national schools
 - .2 Intermediate schools. Boarding schools. Seminaries
 - .3 Universities. Colleges
 - .4 Vocational schools. Schools for professional training. Technical schools
 - .5 Scientific laboratories. Research institutes. *See also* 542.1; 614.3; 615.12; 727.9; 771.1
 - .6 Science museums. Natural history museums. Botanic and zoological garden buildings. *See also* 069.2
 - .7 Art museums. *See also* 069.2
 - .8 Libraries. *See also* 022
 - .9 Others
 - .91 Observatories. *See also* 522.1
 - .92 Meteorological institutions
 - .94 Broadcasting stations. Studios
 - .95 Buildings for scientific associations, for societies, etc.
- 728 **DOMESTIC ARCHITECTURE.** *See also* 725.17; 726.9
- .1 Small houses. Workers' dwellings, urban and rural. *See also* 331.83; 333.32; 334.1

- 728.18 Temporary houses
- .2 Houses consisting of more than one dwelling.
Tenement houses. Flats
- .3 Urban houses
- .31 Terraced houses
- .34 Semi-detached houses
- .37 Detached houses
- .4 Club buildings
- .5 Hotels. Inns. *See also* 725.7
- .54 Hospices. Students' hostels. Youth hostels,
etc.
- .6 Rural domestic architecture. Farm buildings and
cottages. *See also* 631.2, 728.1
- .7 Summer dwellings. Movable dwellings. Chalets
- .77 Houseboats
- .8 Country buildings and houses
- .81 Fortified castles. *See also* 623.1
- .82 Castles
- .83 Manor houses
- .84 Villas. Country houses
- .9 Outbuildings. Stables, garages, barns, and
dependencies. *See also* 636.083; 643/645

729 ARCHITECTURAL DETAILS, DECORATION AND FITTINGS

- .1 Architectural decoration in general
- .3 Basic forms. Architectural elements. *See also*
69.02
- .31 Walls. Cornices, mouldings. Buttresses
- .32 Piers, columns, colonnades, etc. The Orders
- .33 Arches. Arcades
- .34 Vaults. Domes. Niches
- .35 Roofs. Roof openings. Dormers
- .36 Towers. Campaniles, minarets, etc.
- .37 Gables. Pediments
- .38 Doors, gates, windows
- .39 Various: balconies, staircases, verandahs, etc.
- .4 Painted decoration on buildings. *See also* 698.1;
747
- .5 Decoration in relief. *See also* 73
- .6 Facings: plaster, panelling, etc.
- .7 Mosaics
- .8 Vitreous decoration. Stained glass. *See also*
666.1; 748
- .9 Fittings. Fixed and built-in furniture (e.g. altars,
choir stalls, thrones, pulpits, etc.). *See also*
645; 749

73 Sculpture

See also 679.8; 681.9; 726.8; 729.5

73.0 GENERALITIES. *See* 7.0

736 STONE AND METAL CARVING. SIGILLOGRAPHY

- .2 Carved stones. Cameos. Engraved stones.
See also 417
- .3 Sigillography. Sphragistics. Seals. Dies. *See*
also 929.6

737 NUMISMATICS

- .1 Coins. *See also* 332.4; 343.51; 351.822; 417;
671.4
- .2 Medals. *See also* 671.41; 929.7
- .3 Tokens

738 CERAMIC ART. ART POTTERY. *See also* 571; 666.3/.7; 691.4

- .1 Porcelain
- .2 Majolica
- .3 Faience and earthenware
- .4 Enamel. Cloisonné
- .5 Mosaic. *See also* 729.7
- .6 Terra cotta
- .8 Various ceramic articles
- .84 Tanagra

739 ARTISTIC METALWORK. *See also* 671/673; 749

- .1 Gold- and silver-smiths' art. *See also* 247;
671.1; 736
- .2 Jewellers' art. *See also* 391.7; 646.7; 671.1
- .3 Artistic horology. Timepieces. *See also* 681
- .4 Artistic ironwork. Artistic locksmiths' work
- .5 Art objects of non-precious metals. Copper, etc.
- .7 Artistic armour and weapons. *See also* 355.8;
623.4; 683.4
- .8 Curios and bric-à-brac. Antiques

74 Drawing. Industrial Art

741/744 DRAWING

- 741 Drawing in general. *See* 7.0
- .5 Caricature
- .9 Collections of drawings
- 742 Perspective (drawing). *See also* 515.6
- 743 Anatomy (drawing). *See also* 611
- 744 Line drawing. Technical drawing. *See also* 515;
621.71
- .3 Accessories. Drawing boards, compasses, etc.
- .4 Methods. Rules. Instructions
- .5 Reproductions. Tracing
- .8 Storage

745/749 INDUSTRIAL ARTS. *See also* 738/739

- 745 Decoration. Decorative art. *See also* 091;
096; 391; 655; 7.048; 729.4; 73; 76
- .03 Styles of decoration
- .04 Subjects for ornamental decoration. *See also*
688.7
- .5 Industrial art in the narrower sense. *See also*
635.966; 738/739; 746/749
- 746 Art needlework. Tapestry. *See also* 646.2; 677.6
- 747 Interior decoration in general. Exterior decora-
tion in general. *See also* 645; 729.4
- 748 Glass. Crystal. *See also* 666.1/.2; 698.3; 729.8
- 749 Furnishing art. Domestic interiors. Lamps.
Heating apparatus. *See also* 645; 674.2;
684.5/.6; 697; 739

75 Painting

- 753 Epic and mythological subjects
- 754 Genre paintings. Anecdotal subjects
- 755 Religious paintings
- 756 Historical paintings
- 757 Portrait painting. The nude
- 758 Nature paintings
- .1 Landscapes
- .2 Seascapes
- .3 Animals
- .4 Still life
- 759 Various. Paintings of armorial bearings. *See*
also 929.6

76 Engraving. Prints

See also 737.1/2; 741; 774/777

- '61 Relief engraving. Woodcuts
- '62 Intaglio engraving. Copper engraving, etching, etc.
- 763 Flat printing. Lithography
- 768 Mechanical engraving. See also 621.357
- 769 Collections of etchings and prints

77 Photography

- 77.0 GENERALITIES. *Special Auxiliary Numbers.*
- 77.01 General Theory
 - .011 Physical effects of light
 - .012 Chemical effects of light. See also 541.14
Photochemistry
 - .02 General technique
 - .021 Manufacture of sensitive materials
 - .022 Operations relative to exposure of sensitive materials
 - .023 Processing of sensitive materials
 - .4 Development
 - .024 After-treatment of photographic records
 - .025/.026 Preservation, deterioration and defects of negatives and prints
 - .027 Regeneration of baths, and recovery of materials
 - .08 Direct positives. Reversal
- 771 PHOTOGRAPHIC PREMISES, APPARATUS AND MATERIALS
 - .1 Buildings and rooms for photographic work
 - .2 Furniture, plant and fittings
 - .3 Cameras, enlargers and their accessories
 - .35 Photographic lenses, diaphragms and filters
 - .36 Shutters
 - .37 Accessories, e.g. view-finders, range-finders, exposure meters
 - .4 Other apparatus, e.g. contact printers, processing machines, light sources, etc.
 - .5 Raw materials and properties of photographic sensitive materials
 - .51 Colloidal media
 - .52 Supports and special layers
 - .53 Sensitive plates, papers, and films
 - .534 Sensitivity
 - .1 General sensitivity and sensitizers
 - .2 Wavelength sensitivity and sensitizers
 - .3 Desensitizers
 - .5 Sensitometry. Densitometry
 - .55 Properties of the final photographic image, e.g. resolving power
 - .535 Latent image
- 772 PROCESSES BASED ON THE LIGHT SENSITIVITY OF INORGANIC COMPOUNDS
 - .1 Processes using silver salts
 - .11 Silver salts on metal. Daguerreotype
 - .12 Silver salts on paper. Calotype, etc.
 - .13 Silver salts with coating (other than collodion), sensitized by bathing. Albumen papers
 - .14 Collodion processes
 - .15 Processes using emulsions of silver salts
 - .2 Processes using salts of iron, manganese, cobalt or nickel
 - .3 Processes using salts of platinum, palladium, gold or iridium

773 PROCESSES BASED ON THE LIGHT SENSITIVITY OF ORGANIC COMPOUNDS

- .1 Pigment ("Carbon") processes
- .3 Imbibition processes
- .6 Photoceramics
- .7 Processes using light-sensitive dyes or dye-intermediates. Diazo. Bleach-out
- .8 Oil pigment processes. Bromoil

774/777 PHOTOMECHANICAL PRINTING PROCESSES

- 774 Processes using fatty inks on a layer of colloidal substance
 - .1 Collotype
- 775 Photolithography on stone
- 776 Photolithography on other surfaces, e.g. metals, Photo offset plates
 - .7 Special processes for rendering tonal gradation
- 777 Intaglio and relief processes. Photogravure. Letterpress relief blocks (Line Half-tone). Woodburytype, etc.
 - .1 Photogravure
 - .2 Relief printing plates, line half-tone plates or blocks
 - .3 Translating continuous tone to discontinuous tone elements. Screen negatives

778 APPLICATIONS OF PHOTOGRAPHY

- .1 Copying. Enlargements. Reductions
- .11 Contact printing, including reflex printing
- .13 Enlargements
- .14 Reductions, including microphotography
- .2 Projection. Apparatus. Screens. Lantern slides
- .3 Scientific and technical applications
- .31 Photomicrography (making magnified images of microscopic objects)
- .32 Telephotography
- .33 Radiography. Photography with X-rays and γ-rays
- .34 Photography with other rays. Ultra-violet and infra-red
- .35 Aerial photography
- .37 High-speed photography
- .38 Photogrammetry
- .4 Stereoscopic photography. Taking and viewing
- .5 Cinematography
 - .53 Taking
 - .534.4 Photographic sound recording
 - .8 Time-lapse and high-speed cinematography
 - .55 Projection
 - Subdivide like 778.53
 - .6 Colour photography
 - .8 Photographic amusements and illusions

779 COLLECTIONS OF PHOTOGRAPHS

78 Music

See also 347.785; 612.85; 681.81; 725.81/.82; 792; 792.8

78.0 GENERALITIES. *Special Auxiliary Numbers.* See 7.0

- 781 Theory of music
 - .1 Scientific bases. See also 534
 - .15 Rhythm
 - .2 Technical theory. Notation. Nomenclature
 - .4 Musical harmony. Counterpoint. Melody

- 781.5 Musical form
.6 Composition. Instrumentation. Orchestration. Interpretation
- 782/785 KINDS OF MUSIC
- 782 Dramatic music. Opera. Light opera
- 783 Ecclesiastical and sacred music. *See also* 245
- 784 Vocal music. *See also* 398.8; 612.78; 8.083
.5 Secular oratorios and cantatas. Choral works with orchestral accompaniment
- 785 Instrumental music
.1 Orchestral music
.11 Symphony orchestra
.12 Wood wind and brass band
.13 Military music
.16 Light orchestra. Jazz band
.4 Programme music
.6 Concertos
.7 Chamber music
- 786/789 MUSICAL INSTRUMENTS. MUSIC FOR THESE INSTRUMENTS. *See also* 681.81
- 786 Keyboard instruments. *See also* 681.816
.1 Harpsichord, etc.
.2 Piano
.6 Organ
.7 Harmonium
.8 Accordion
- 787 String instruments. *See also* 681.817
.1 Violin
.2 Viola
.3 Violoncello
.4 Other bow instruments
.5 Harp
.6 Guitar. Mandoline. Zither
.9 Other string instruments
- 788 Wind instruments. *See also* 681.818
.1 Trumpet
.2 Trombone
.3 Cornet
.4 French horn. Saxophone. Bass tuba, etc.
.5 Flute
.6 Clarinet
.7 Oboe
.8 Bassoon and contra-bassoon
.9 Other wind instruments. Alpine horn, ocarina, etc.
- 789 Percussion and mechanical instruments. *See also* 681.819
.1 Drums. Tympani
.2 Cymbals
.3 Triangle
.4 Tambourine
.5 Bells. Chimes. *See also* 673.5
.6 Xylophone. Celeste, etc.
.9 Mechanical instruments. Pianolas. Orchestrions. *See also* 681.82

79 Recreation. Amusement. Games. Sport. *See also* 685

- 79.0 GENERALITIES. *Special Auxiliary Numbers. See* 7.0
.092.2 Contests. Championships

- 791/792 PUBLIC ENTERTAINMENTS. PERFORMANCES. *See also* 394
- 791 Public entertainment. Public entertainments and performances. *See also* 688.74
.1 Fairs. Equilibrists. Jugglers. Conjurers. Ventriloquists, etc.
.2 Public musical performances
.3 Circuses
.4 Film shows
.43 Kinds of film
.44 Film production
.45 Cinema shows
.6 Processions. Public festivities. Pageants. Illuminations. *See also* 394
.7 Funfairs. Roundabouts. Greasy pole, etc.
.8 Menageries. Trained animals
.9 Other amusements
- 792 Theatre. Dramatic performances. *See also* 688.74; 725.82; 782; 793.1; 8...-2
.04 Theatrical materials. Décor
.1 Tragedies. Drama
.2 Comedies. Vaudeville
.3 Farces. Pantomimes
.4 Opera. Musical plays
.5 Comic opera
.6 Operettas and musical comedies
.7 Variety and cabaret performances
.8 Ballets. Revues. Dancing performances. *See also* 793.3
.9 Gala performances. Open air theatre, etc.
- 793/795 SOCIAL ENTERTAINMENTS AND INDOOR GAMES. DANCING
- 793 Social entertainments. Dancing
.1 Amateur theatricals. *See also* 792
.2 Domestic festivities needing preparation; e.g. Christmas festivities, charades, etc.
.3 Dancing. Balls. Folk Dancing. *See also* 291; 39; 792.8
.4/.7 Various indoor entertainments. Children's games.
.8 Guessing games. Scientific recreation. Crossword puzzles, etc.
- 794 Games requiring thought and calculation. *See also* 795.4
.1 Chess
.2 Draughts
.5 Solitaire
.6 Dominoes
.7 Billiards
- 795 Cards and games of chance
.1 Dice games
.2 Roulette
.3 Lotto. Mah-jong
.4 Card games
.41 Combination games. Bridge
.42 Card games of chance
.43 Patience
.5 Games of chance with objects thrown or rolled
- 796/799 GYMNASTICS. SPORT
- 796 Sport and games in general. Athletics
.1 Children's open air games. *See also* 371.7; 372.21; 649.5; 688.72
.2 Motion and dexterity games with special accessories. Skipping rope, marbles, etc.
.3 Ball games
.31 Ball games without special accessories. Catch, etc.

6.32	Basket ball	796.8	Athletic sports. Attack and defence sport
.332	Football	.81	Wrestling
.333	Rugby	.83	Boxing
.342	Tennis	.86	Fencing. <i>See also</i> 343.613
.352	Golf	.89	Other athletic sports
.353	Polo	.891	Jiu-jitsu
.354	Pall Mall	.9	Winter sports
.355	Hockey	.91	Skating
.357	Baseball	.93	Skiing
.358	Cricket	.94	Sleighting
.37	Discus and weight throwing	.95	Bobsleigh. Toboggan
.38	Games with aimed throw. Boomerang and javelin throwing	.96	Ice games. Ice hockey
.4	Gymnastics and physical exercise. Physical training. <i>See also</i> 371.7; 615.82	.97	Special ice sports. Ice yachting. Ice racing
.41	Free and ordered exercises. Rhythmic exercises	797	Aquatic sports. Air sports
.42	Running. Marching	.1	Nautical sports. <i>See also</i> 386/387; 527; 629.12; 656.6
.43	Jumping. Balancing exercises	.12	Rowing. <i>See also</i> 371.7
.44	Parallel bars. Horizontal bars. Vaulting horse exercises	.14	Sailing. Yachting
.45	Gymnastics with gymnastic apparatus	.15	Motor boating
.46	Trapezes. Rings	.2	Swimming
.47	Acrobatics	.25	Water polo
.48	Equestrian exercise	.5	Air sports. <i>See also</i> 388.9; 629.13; 656.7
.49	Exercise with various animals	.55	Flying. Gliding
.5	Touring. Mountaineering. <i>See also</i> 64.024; 910.2	798	Equestrian sport. Horse racing. <i>See also</i> 636.1
.51	Hiking. Touring on foot	.2	Riding. <i>See also</i> 636.1.088
.52	Mountaineering. Alpine climbing. <i>See also</i> 368.4; 551	.4	Horse racing. Trotting contests
.54	Camping	.6	Buck riding. Team racing
.6	Cycling. <i>See also</i> 629.118	.66	Horse shows
.7	Motoring. <i>See also</i> 629.113	799	Hunting and Fishing as sport. Shooting
		.1	Fishing. Angling. <i>See also</i> 597; 639.2
		.2	Hunting. <i>See also</i> 639.1
		.3	Shooting

8 LITERATURE. BELLES LETTRES

As far as concerns direct subdivision, the number 8 is subdivided to correspond with 4; e.g.

20 *English philology*

20 *English literature*

For those who wish to classify philology and literature together the Auxiliary Number .07 is provided under 8. This Auxiliary thus comes into consideration only for optional use, and for those who use it Section 4 is cancelled and becomes:—

8 *Literature. Linguistics. Belles lettres and philology*

3.07 *Philology in general. The Auxiliary Number .07 may be subdivided like 41*

3...07 *Philology of specific languages; e.g.*
839.32.07 *Flemish philology*

8(091) HISTORY OF LITERATURE

8(A/Z.1/.7) *Special Auxiliary Numbers for classification of the works of specific authors*

The works of specific authors are subdivided alphabetically by name. Detailed classification can then take place by the numbers ...1/...7, after, if necessary, the names of Places.

8(...1) *Complete works. *See also* 8.03; 8.09; 930.27.*
E.g. 840 (Molière 1) *Complete works of Molière*

8(...3) *Selected works. Extracts*
E.g. 839.31 (Vondel 3) *Selected works of Vondel*

8(...4)	Works by others concerning the author and his works
8(...5)	Anonymous works which are attributed to a specific author
8(...6)	Works in the name of an author which are attributed to others. E.g. 820 (Shakespeare 6) Works in Shakespeare's name attributed to others, e.g. Bacon
8(...7)	Individual works of an author. E.g. 830 (Goethe 7) <i>Faust</i>
8-1/-9	<i>Special Auxiliary Numbers for kinds of literature. <i>See also</i> 03/05; 07/09; (02/09)</i>
8...-1	Poems. <i>See also</i> 245; 398.8; 784
-2	Dramatic works. Libretti. Scenarios. Theatrical works. <i>See also</i> 782/784; 792
-3	Tales. Novels. Narratives. Prose. <i>See also</i> 398; 92
-4	Sketches. Treatises. Essays
-5	Speeches. Discourses. <i>See also</i> 252; 340.96
-6	Epistles. Works in letter form. <i>See also</i> 652
-7	Satires. Humorous works. Parodies. Epigrams. <i>See also</i> 398
-8	Polygraphies. Dialogues. Conversations. Aphorisms. Anthologies, etc.
-9	Other kinds of literary productions: Cheap editions, literary criticisms, magazine contributions, pamphlets, memoirs. <i>See also</i> 22; 291.8; 8.09; 9

8.0	<i>Special Auxiliary Numbers for theory, science and technique of belles lettres</i>	82/89	LITERATURE OF THE VARIOUS LANGUAGES. <i>Subdivide like 42/49; e.g.</i>
.01	Literary aesthetics. <i>See also</i> 7.01, 18	820	English literature
.015	Schools, systems and theories	830	German literature
.1	Schools	839	Other Germanic literature
.11	Classicism. Neo-classicism	839.3	Dutch literature
.12	National schools	840	French literature
.13	Préciosité (France), Marinism (Italy), Gongorism (Spain), Euphuism (England)	850	Italian literature
		860	Spanish literature
.14	Romanticism. Neo-romanticism	869.0	Portuguese literature
.15	Parnassism. Art for Art's sake	87	Latin and Greek literature
.16	Naturalism. Realism	871	Latin literature
.19	Other schools. Impressionism, symbolism, expressionism, futurism, surrealism, dadaism, etc.	875	Greek literature
		88	Slavonic and Baltic literature
.03	Translations	882	Russian literature
.07	Philology in general. For optional use only. <i>Subdivide like</i> 41	884	Polish literature
.08	Literary technique. Versification. Rhetoric, etc.	89	Non-European literature. Oriental literature
.085	Oratory. <i>See also</i> 534.7; 612.78	891	Indian literature. Indo-Germanic literature
.09	Literary criticism	892	Semitic literature
.091	Comparative literature	892.4	Hebrew literature
		892.7	Arabic literature
		895.1	Chinese literature
		895.6	Japanese literature
		896	African literature
		899.2	Malayan and Javanese literature

9 GEOGRAPHY. BIOGRAPHY. HISTORY

See also 325; 525; 55; 56; 571/572; 581.9; 591.9

908 HOMELAND SCIENCE

Comprehensive studies on the history, geography, culture, economics, etc., of a country. Subdivide by means of (4/9)

91 Geography

Description of travels.

Geographical works in the proper sense of the term. Descriptions, explorations, accounts of travels, travel guides and works which deal with a country from various points of view.

Topographically limited data about a specific subject are classified with the appropriate subject by means of the Common Auxiliary Numbers of Place; e.g. 26(493) The Christian Church in Belgium.

For Physical Geography see 551.4.

91-1/-9 VARIOUS MORE DETAILED PLACE DESIGNATIONS. *Subdivide like* (-1/-9); e.g. 914.3-18 *North-east Germany.*

910 GENERAL QUESTIONS

- .1 Geography as science. Rudiments. Theories. Methods.
- .2 Art and technique of travel. *See also* 38; 65; 796.5
- .4 Great travels
- .41 Travels round the world
- .42 Travels in various parts of the world
- .45 Sea voyages. Shipwrecks

911 HISTORICAL GEOGRAPHY IN GENERAL

Developments and alterations of political frontiers. Subdivide by Common Auxiliary Numbers of Place and Time.

912 MAPS. CARTOGRAPHY. Plans. Atlases. *See also* 526. *Subdivide by Common Auxiliary Numbers of Place and Time.*

913 REGIONAL GEOGRAPHY IN GENERAL

- .0 Geography of the whole world
- .1 Geography of the ancient world in general
- .2/.9 *Subdivide like* (32/39)

914/919 MODERN GEOGRAPHY OF INDIVIDUAL COUNTRIES. *Subdivide like* (4/9); e.g.

- 914 Geography of Europe
 - .2 Geography of England
 - .3 Geography of Germany
 - .4 Geography of France
- 915 Geography of Asia
- 916 Geography of Africa
- 917 Geography of North America
- 918 Geography of South America
- 919 Geography of Oceania and the Polar Regions

92 Biography

Individual biographies are classified alphabetically by proper names; e.g.

92 (Thorbecke) *Biography of Thorbecke*

Collective biographies are classified by means of Common Auxiliary Numbers of Place and Time; e.g.

92(44) *Biographies of great Frenchmen.*

92(44)"17" *Biographies of great Frenchmen of the 18th Century.*

Collective biographies of persons associated with the same science, art, etc., are enumerated by means of combination by : ; e.g.

92:61 *Biographies of celebrated physicians.*

References of various kinds which concern one person are classified according to their kind by means of the sign of Relation : after subdivision (A/Z); e.g.

- 92 (Goethe):091 Manuscripts
 :704 Iconographs
 :73 Sculptures. Statues
 :741.5 Caricatures. Cartoons
 :76 Engravings
 :77 Photographs
 :784 Songs
 :8-1 Poems
 :8-2 Dramatic works
- 929 **GENEALOGY. HERALDRY. ARMORIAL BEARINGS.**
The subdivision of all numbers takes place according to proper names and according to Place and Time.
- 929.1/.5 **Genealogy.** *See also* 347.18
 .1 Genealogy in general
 .09 Family names. Christian names. Surnames. Pseudonyms
 .2 Family study
 .3 Registers of births, christenings, marriages and deaths. *See also* 351.755
 .5 Epitaphs
- 929.6/.7 **Heraldry. Blazonry**
 .6 Heraldry in general. *See also* 736; 759
 .7 Nobility. *For individual families see* 929.2
 .71 Orders and decorations. *See also* 351.856
- 929.9 **Flags. Standards**

93 History

See also 27; 3; 736/737; 756; 911; 92; 929

Chronological subdivision of history takes place by means of the Common Auxiliary Numbers of Time. Subdivision according to sources can be indicated by means of the Common Auxiliary Numbers for Sources; e.g. 94"1618/1648"(093.2) Documents and memoranda concerning the Thirty Years' War.

The idea of history can be indicated outside of Section 9 by means of the Common Auxiliary Number (091); e.g. 51(091) History of mathematics.

- 930 **GENERAL QUESTIONS**
 .1 Theory. Philosophy of history
 .2 Methodology
 .22 Theory of documents. *See also* 002
 .23 Historical criticism
 .24 Historical chronology. *See also* 529
 .25 Archivistics. *See also* 651.5
 .26 Archaeology. Antiquities. *See also* 571/572
 .27 Epigraphy and palaeography. *See also* 003; 417
 .271 Epigraphy
 .272 Palaeography. *See also* 56
 .8 General coincident historical considerations. Descriptive universal historical studies
 .85 History of civilization. *See also* 008
 .9 General history. World history in the restricted sense. (Chronological summation of facts)
- 931 **ANCIENT HISTORY IN GENERAL**
 .5 Ancient Chinese history
- 932/939 **ANCIENT HISTORY OF THE VARIOUS INDIVIDUAL COUNTRIES.** *Subdivide like* (32/39)
- 94/99 **REGIONAL HISTORY.** *Subdivide like* (4/9); e.g.
- 94 **MODERN HISTORY IN GENERAL**
 940 European history
 .3 History of the World War I, 1914/1918
 .42 History of the World War II, 1939/1945
 942 History of England
 950 History of Asia
 960 History of Africa
 970 History of North America
 980 History of South America
 990 History of Oceania and the Polar regions

INTRODUCTION TO AUXILIARY NUMBERS AND SYMBOLS

Synopsis

<i>Symbols</i>	<i>Expressed as</i>	<i>Significance</i>	<i>Table</i>
+	Plus	Connection of non-consecutive numbers	(a)
/	Stroke	Connection of consecutive numbers	(a)
:	Colon	Relation	(b)
[]	Square brackets	Relation (subordinate)	(b)
=	Equals	Language	(c)
(0)	Brackets nought	Form	(d)
(1/9)	Brackets	Place	(e)
(=)	Brackets equals	Race and nationality	(f)
" "	Inverted commas	Time	(g)
A/Z	A to Z	Individual subdivision	(h)
-	Hyphen	Special analytical numbers	(i)
.00	Point double 0	Point of view	(j)
.0	Point nought	Special analytical numbers	(i)

Arrangement

Order of the individual parts of a compound decimal number

It is impossible to dictate hard and fast rules with regard to the sequence of components of compound decimal numbers.

The main number must be mentioned first, after which follows the auxiliary number which limits the range of the main number to the greatest degree. Then the less restrictive definitions come into account. Usually the arrangement of the auxiliary numbers occurs in the sequence: Point of view .00; Place (1/9); Time " "; Form (0); and Language =.

Examples:

- 675.003(492)(043) Thesis (043) on the leather industry 675 in Holland (492) from the economic point of view .003;
 55(492)(021) Manual (021) on the geology 55 of Holland (492);
 622(05) = 40"1934" File for the year 1934 of a published periodical (05) in French = 40 on mining 622

Arrangement in a file of successive compound decimal numbers

For this arrangement in a file the following scheme obtains as a fixed rule:

<i>Symbol</i>	<i>Compound Decimal Number</i>	<i>Significance</i>
+	675 + 677	Leather and textile industry
/	675/677	Leather, paper and textile industry
Simple decimal number	675	Leather industry
:	675:338.97	Economic crisis in the leather industry
[]	675[37]	Instruction in leather work
=	675 = 20	Document in English on leather industry
(0)	675(021)	Handbook on leather industry
(1/9)	675(42)	The leather industry in England
" "	675"19"	The leather industry in the twentieth century
A/Z	675 Smith	Leather marked Smith
-	675-78	Protective arrangements in the leather industry
.00	675.007	Personnel in the leather industry
.0	675.02	The working of raw leather
.1/.9	675.3	Morocco leather

Filing according to decimal classification

To facilitate the finding of decimally classified data the parts of compound numbers may be reversed, e.g. by filing the number 622(492) under 622, including it again in the reverse order—viz. (492)622—and filing it, therefore, also under (492). It is, however, recommended that the cards in question (which are often multiplied by means of carbon

paper) be made all alike, and that the part of the compound number for which the card answers should be underlined in a striking colour. The idea 622(492) will then be assimilated into the card index as follows: 622(492) and 622(492).

The same principle is to be followed with numbers joined by a colon.

Preference Rule

In case of doubt main numbers are used for preference. Of the auxiliary numbers the special auxiliary numbers with .0 take precedence over those with -, and these again before the common auxiliary numbers for point of view with .00. Only afterwards do the other common auxiliary numbers come into consideration.

The order of preference is thus:

0/9; .01/.09; -1/-9; .001/.009; (0/9); “ ”; =

In case of doubt concerning the choice of numbers which belong to one and the same kind, choose the number which comes first in decimal order.

Restraint in the Use of Analytical Subdivisions and Auxiliary Numbers

In practice it will be found that it is seldom necessary to use a great number of tables of auxiliary numbers for a particular card record or other documentary device. As a rule application of the sign of Relation : and the auxiliary numbers of place between parentheses is sufficient.

Analytical Subdivisions

In many of the main classes, it is found convenient to provide a series of special analytical subdivisions which can be added to any member of the class, to either the class number or any of its normal subdivisions. Such analytical subdivisions, applicable only where specified under the notes at the head of each class, are provided by using the signs .0 (point 0) and - (hyphen). Examples will be found in various parts of the main classes, e.g. 621.3.

These subdivisions are in many cases suitable only for use in private files, because they tend to hide the information from the point of view they are intended to specify. Thus a group of subdivisions with .0 is seen at the commencement of 551.51 Mechanics and structure of the atmosphere, where 551.51.052 signifies Troposphere. If it is desired to specify the effect of the troposphere on terrestrial radiation,

the 052 may be added to the number for terrestrial radiation to form 551.521.2.052.

In this example the information about the troposphere is hidden under the number for terrestrial radiation. Therefore, in bibliographies intended for circulation, it is preferable to index the information with the aid of the colon as 551.521.2:551.51.052 so that entries may be filed automatically under both aspects of the subject.

The same objection applies to the use of the hyphen divisions in published bibliographies. Moreover, main divisions exist corresponding to many of the hyphen numbers, and these should be used in preference.

To avoid the use of symbols to the utmost, many auxiliary numbers can be replaced by the corresponding main numbers preceded by the sign of Relation :. The fact is that for the most important auxiliary numbers there exist in the nature of things corresponding main numbers which designate the auxiliary ideas in question as independent ideas, so that

338(44) Economic situation of France
may be replaced by
338:914.4 Economic situation of France

Intercalation

The symbols which are finished off with a closing sign, such as brackets and inverted commas, can be intercalated, e.g.

338.5 Economic situation. Prices
(42) England
338(42)5 Economic situation in England.
Prices
54 Chemistry

061.2 Institutions
061.2.02 Members of institutions
54:061.2(492)02 Members of the Dutch Chemical
Society

Intercalation, which makes possible any desired grouping, must, however, be avoided in the classification of data which are intended for exchange or publication and is therefore restricted to internal administration. See also page 111, Table (b).

The Classification of a Document by means of Universal Decimal Classification

Before we attempt to classify any document by means of the Universal Decimal Classification, it is essential to analyse it and select the individual elementary ideas with

which it deals. Following is the outline of such an analysis, with an indication of the symbols that may be used for the classification of the ideas described in the document:

										Classification Symbol											
Intrinsic content of idea	Object	{	Class ..	{												
											United	{	By summing up	{	Nearest situated	/					
																	Dispersed	+			
												{	By relation	{	Co-ordinate	:					
																	{	Subordinate	{	Subjective (intell. form)	(0:0/9)
											{	Dissected	{	According to point of view00						
																{	According to elements	{	Of broad purport	-0/-9	
																					{
											{	Individual	{	Name	A/Z						
																{	Anthropological	{	Ethnological	(=)	
											{	Historical	(3)								
														{	Geographical	{	Physical	(2)			
											{	Topographical	(4/9)								
														{	Time	{	Chronological	"-/2"			
{	Phenomenological	"3/7"																			
			{	Material form	(0)																
{	Language	=																			

Regrouping of Decimal Numbers according to the Special Point of View of an Organization

The Universal Decimal Classification attempts to give an objective systematic survey of the whole of human knowledge. In arranging the papers of a business or institution, it may be desirable, however, to classify the material from the more or less subjective viewpoints of the organization, using the auxiliary numbers that can be considered specifically for the particular organization.

If a business is employed technically in some way or other, then, for it, the common auxiliary subdivisions of point of view (designated by .00, see Table j) come first into consideration. For a corporate body concerned exclusively with arrangement and organization, the analytical subdivisions of corporate bodies (enumerated under 06.01/.09, see pp. 12-13) will suffice.

A combination of both may arise.

Hence we set to work as follows:

Suppose that we are organizing according to the Universal Decimal Classification our file for the waterworks business in Amsterdam (i.e. an institution technically employed) and wish to be able to submit sets of documents for the following:

- 022.5 Public reading room
- 651.5 Archives
- 659.24 Information Bureau

The organization itself should receive the decimal number 628.1(492.621).

The above-named sets of documents are then grouped together by the interpolation of the auxiliary number of point of view .005 Point of view of equipment and organization. The reading room should in this way receive the number 628.1(492.621).005:022.5.

For simplification, the decimal number which designates our particular business, 628.1(492.621), is then replaced by the standardized designation × (cross).

The set of documents for the reading room thus receives the designation × 005:022.5 and the other two sets of documents are respectively:

- × 005:651.5 Waterworks business. Amsterdam—Archives
- × 005:659.24 Waterworks business. Amsterdam—Information Bureau

By this means the information concerning organization and equipment for .005, 022.5, 651.5, 659.24 and possibly other subdivisions, is distributed in a simple way.

Alternatively the analytical subdivisions of 06 may be more appropriate.

If, for example, we want to classify the set of documents that concerns the fire and burglary insurance of property in the Industry Group, Retail Trade, the decimal numbers to be united are:

- 381.5 Retail trade
- 06.03 Movable possessions of institutions and associations
- 368.1 Fire and burglary insurance

Giving 381.5:06.03:368.1

Here in internal administration concerning the Industry Group, Retail Trade the compound number 381.5:06 is replaced by × and we get ×.03:368.1 as the designation for the set of documents in question.

ABSTRACT OF THE AUXILIARY NUMBERS AND SYMBOLS

(a) Symbols for Connection

Connection of non-consecutive numbers

Non-consecutive numbers may be connected by means of the + sign, e.g.:

622 + 669 Mining and metallurgy
(492 + 494) Holland and Switzerland

A reference classified in this way is filed under both numbers.

In uniting a series of numbers which indicate one and the same subject from different points of view, and denoted by different decimal numbers, we can, by way of simplification, correctly use as designation the number which comes first in the decimal sequence followed by the plus sign +, e.g.:

546.72 + Iron, all-embracing view (thus including mineralogy, ore, metallurgy, working up and application)

Summation of consecutive numbers

A series of consecutive numbers can be designated by noting down the first and last only and separating these by the sign /, e.g.:

591.11/.13 Blood, respiration and nutrition of animals

In order to effect the arrangement of a subject classified in this way under the various specific numbers, designation in full of the remaining numbers 591.11 + 591.12 + 591.13 is to be preferred.

(b) Designation of Relation

To express relationship between various ideas we use the sign of Relation : which is placed between the numbers representing these ideas, e.g.:

31 Statistics. 63 Agriculture
31:63 Agricultural statistics.
341.63 Arbitration. (44) France. (45) Italy
341.63(44:45) Arbitration between France and Italy

If in doubt whether use of the sign : is to be preferred to that of the sign +, choose the : as the connecting symbol.

The connection of two numbers by means of the sign of Relation : points to a relation between co-ordinate ideas. It is possible also to indicate a relationship of subordination. In this the further distinction must be made as to whether the idea to be subordinated is to be regarded as subsidiary to the main idea, or whether rather it represents a specific form, which the main number is needed to express. In the former case one uses the symbol [...], in the second case

(0:...). For the second case, see page 112, (d) Auxiliary numbers of Form.

If in the classification of agricultural statistics one wants to designate the idea statistics as a subsidiary idea one writes thus: 63[31].

The symbol [...] lends itself especially to intercalation, e.g.:

620.174 Research in materials. Bending tests
669.14 Steel
620.1[669.14]74 Steel research. Bending tests

When the square brackets are difficult to reproduce on the typewriter they can be replaced by reduplicated round brackets, thus 63((31)).

Be it noted that these are variations of a subtle character, and ought preferably to be avoided in printed bibliographies or references for exchange. Thus, in general, preference is given to a simple application of the sign of Relation :.

(c) Auxiliary Numbers of Language

Note:

The common auxiliary numbers of Language serve to designate the language in which the document is written. Their subdivision is the same as that of sections 4 and 8.

The use of the common auxiliary numbers of Language can only be recommended for very minute subdivision. Their application will be confined mainly to the following:

(a) Simultaneous designation of an idea according to Form and Language, e.g.:

61(03) = 20 Medical encyclopaedia in English

(b) Distinction between translations of specific works, e.g. the Bible, the Koran, etc., e.g.:

22.05 = 40 French translation of the Bible

(c) Composition with the idea expressed by a main division, which is also regulated according to language. In this case the auxiliary number of Language is placed first, and to avoid errors is separated from the main number by a second = sign, e.g.:

= 30 = 08 Collected works in German
= 40 = 08 Collected works in French

Subdivision

= 00 General linguistic point of view. Polyglots
= 20 English
= 30 German
= 392 Frisian
= 393 Dutch
= 393.2 Flemish
= 393.6 Afrikaans
= 395 Scandinavian
= 395.9 Icelandic
= 396 Norwegian
= 397 Swedish
= 398 Danish
= 40 French
= 40(493) Walloon
= 490 Provençal
= 499 Catalan
= 50 Italian
= 59 Rumanian
= 60 Spanish
= 69 Portuguese
= 71 Latin
= 75 Ancient Greek

= 774	Modern Greek
= 81	Slavonic in general
= 82	Russian
= 826	White Russian
= 83	Ukrainian
= 84	Polish
= 85	Czech
= 854	Slovakian
= 861	Serbian
= 862	Croatian
= 863	Slovene
= 867	Bulgarian
= 88	Baltic
= 882	Lithuanian
= 883	Lettish
= 9	Oriental languages. Remaining languages
= 91	Indo-Germanic languages
= 912	Sanskrit
= 913	Pali. Prakrit

= 914	Modern Hindu languages
= 915	Iranian. Persian
= 916	Celtic languages. Irish
= 924	Hebrew
= 927	Arabic
= 93	Hamitic. Egyptian. Coptic
= 94	Turanian
= 943.5	Turkish
= 945.11	Hungarian
= 945.41	Finnish
= 95	Asiatic languages
= 951	Chinese
= 956	Japanese
= 96	African languages. (Negro languages)
= 97	North American languages. (Indian languages)
= 98	South American languages. (Indian languages)
= 992	Indonesian languages
= 992.21	Malayan
= 992.22	Javanese

(d) Auxiliary Numbers of Form

Note:

The common auxiliary numbers of Form (0...) serve to distinguish the form of the idea which is expressed by the main number, e.g.:

58(021) *Handbook of Botany*

Main numbers, preceded by 0:, may be used to express the form of a document by enclosing them in (), e.g.:

091 *Manuscripts*

(0:091) *Material in the form of manuscript*

The employment of auxiliary numbers may be avoided when appropriate numbers are provided in the main tables.

(02)	Books. Systematically classified data in book form
(021)	Comprehensive works. Handbooks
(022)	Books of moderate scope
(023)	Books of limited scope. Popular manuals
(024)	Books for specific circles of users
(024.7)	Children's books. <i>See also</i> 087.5
(025)	Questions and answers. Catechisms
(03)	Reference books. Alphabetically classified data in book form. Encyclopaedias. Lexicons. Dictionaries
(031)	Encyclopaedias and dictionaries of large scope
(032)	Encyclopaedias and dictionaries of medium scope
(033)	Encyclopaedias and dictionaries of limited scope
(038)	Language dictionaries. Technical dictionaries
(04)	Brochures. Lectures. Academic theses. Letters. Pamphlets
(041)	Brochures. Pamphlets. Reprints
(042)	Addresses. Lectures. Speeches
(043)	Academic theses. Theses. Dissertations
(044)	Letters. Open letters. Circulars. Circular letters
(045)	Articles in periodicals. Separated portions of books
(046)	Newspaper articles
(047)	Short notices. Information. Synopses. Reports
(048.1)	Bibliographical lists. Reviews. Book discussion. <i>See also</i> 019
(048.6)	Abridged editions
(048.7)	Commentaries
(049)	Documents of various forms. Agenda. Resolutions. Proclamations. Messages. Controversial writings. Interviews. Petitions
(05)	Periodicals. Serial works. Documents published periodically
(058)	Year books. Directories

(058.7)	Directories
(059)	Almanacs. Calendars. Diaries
(06)	Publications of corporations, societies, associations and other institutions <i>Subdivide like</i> 061
(07)	Educational and study books
(075)	School books. Textbooks
(075.2)	Textbooks for elementary education
(075.3)	Textbooks for intermediate education
(075.4)	Textbooks for self-instruction
(075.5)	School programmes. Curricula
(075.6)	Textbooks for women and girls
(075.7)	Textbooks with a specifically religious, philosophical or ethical tendency
(075.8)	Textbooks for university and higher education
(076)	Exercises. Questions. Solutions. Answers
(076.1)	Exercises and questions. Examination questions
(076.2)	Solutions and answers
(076.5)	Practical exercises
(078)	Other documents for education
(079)	Prize competitions. Competition notices and reports. Questionnaires. Certificates. Study reports
(079.1)	Public competitions and tests
(079.2)	Distinctions. Rewards. Prizes. Titles. Certificates
(079.3)	Reports of expeditions and travels
(079.5)	Questionnaires for investigations. Ballots
(08)	Polygraphs. Collected works. Tables. Miscellanies
(081)	Collected works of specific authors
(082)	Collective works of different authors
(082.1)	Collective works of different authors on a specific subject
(082.2)	Anthologies. Selections. Quotations
(083)	Formulae. Numerical tables. Schedules. Lists. Recipes. Reckoners. Estimates
(083.1)	Recipes. Practical advice. Prescriptions
(083.2)	Printed forms. Registers
(083.3)	Tables of mathematical formulae. Measures. Calculations. Units
(083.4)	Various schedules and tables. Survey tables. Statistical documents
(083.5)	Numerical tables. Conversion tables
(083.6)	Tables with other than numerical data
(083.7)	Definitions. Nomenclature. Standards. Specifications

- 083.8) Lists. Inventories. Catalogues of articles
 083.9) Plans. Projects. Building and industrial instructions
 (084) Graphic representations. Diagrams. Sketches.
 Films. Atlases. Maps. Designs
 (084.1) Illustrations. Drawings. Photographs
 (084.2) Schematic representations. Diagrams. Nomographs
 (084.3) Maps. Plans
 (084.4) Atlases
 (084.5) Pictorial Posters
 (085) Publications of industrial and commercial undertakings. Catalogues. Prospectuses. Circulars. Advertisements. Price lists. Tariffs. Printed advertising matter
 (086) Documents characterized by dimension and form
 (086.1) Mounted documents: samples, stamps
 (086.2) Photographic copies
 (086.3) Microscopic specimens and slides
 (086.4) Globes and relief maps
 (086.5) Three-dimensional representations. Models
 (086.6) Museum objects. Specimens and samples
 (086.7) Gramophone records. Phonograms
 (087) Documents according to origin and destination
 (087.1) Documents according to origin
 (087.2) Documents destined for specific categories of persons
 (087.4) Contracts. Agreements
 (088) Various documents
 (088.3) Miscellanies. Curiosa. Anecdotes. Paradoxes, etc.

- (088.5) Enigmas. Practical jokes. Riddles. Scientific, artistic and literary deceptions
 (088.7) Factory and trade marks
 (088.8) Letters patent
 (089) Various collected works. Serial works
 (089.1) Artificially formed collections
 (089.2) Works published in parts. Serials

(09) Sources of historical and authoritative data

This section comprises exclusively works which handle the specific subject from the point of view of origin, development and regulation; e.g. 53(091) History of physics

- (091) Presentation in historical form
 (092) Presentation in biographical form
 (093) Historical sources. Documents. Monuments
 (094) Authoritative sources. Laws. Byelaws
 (094.1) Edicts. Decrees
 (094.2) International agreements and treaties
 (094.4) Law books
 (094.46) Commentated laws
 (094.5) Laws. Orders in Council. General Government measures
 (094.7) Regulations. Legal sources on the basis of autonomy. Provincial and municipal byelaws. Orders. Administrative measures
 (094.8) Legal sources emanating from courts of justice. Test cases
 (094.9) Jurisprudence. Common law
 (095) Antique and ancient legal sources

(e) Auxiliary Numbers of Place

Note:

The common auxiliary numbers of Place are used to indicate the geographical situation of the ideas characterized by the main number, e.g.:

- 347.77(492) Dutch patent law
 385(43) German railways

They can also serve as subdivisions in which the geographical importance is paramount. The auxiliary number of Place then stands as the main number, e.g.:

- (492)347.77 Holland, Patent law
 (43)385 Germany, Railways

Auxiliary numbers of Place may be added to any main number. Cross references, by putting the auxiliary numbers also after the first two figures of the main number, are recommended.

E.g.	I Special entry	II Cross reference
	338.97(45)	33(45):338.97
	621.32(42)	62(42):621.32
	551.23(64)	55(64):551.23
	583.439(741)	58(741):582.439

(-) Various local limitations

The subdivisions by means of (-) are applied exclusively to the subdivisions of (1/9), e.g.: (1-2) Towns in general; (493-3) Belgian provinces.

- (-0) Zones
 (-04) Limiting zones. Boundaries
 (-07) Military zones
 (-074) Occupied territory
 (-1) Orientation. Points of the compass
 (-11) East
 (-13) South
 (-15) West

- (-17) North
 (-19) Relative position
 (-191) Centre. Middle
 (-192) Periphery
 (-194) Proximity
 (-2) Municipalities. Towns. Villages. Parishes
 (-3) Provinces. Government regions. Counties. Departments
 (-4) Countries. States. Commonwealths
 (-44) Empires
 (-5) Colonies. Concessions. Mandated territories
 (-6) Groups of states. Unions. International communities
 (-65) Grouping in wartime
 (-651) Belligerents
 (-652) Neutrals
 (-7) Sphere, domain of private activity. Working territory of a company
 (-8) Place of origin, of destination
 (-82) Origin
 (-85) Destination

(1) Designation of place in general.

- (100) Universality in relation to place. The whole universe. The whole world. International. The countries in general

(2) Physical designation of place

- (21) Continents. Mainland. Zones
 (211) Cold regions
 (213) Tropical regions
 (22) Islands
 (23) Mountains
 (234) Mountains of Europe
 (234.12) Pyrenees
 (234.27) Vosges
 (234.28) Ardennes

(234.3)	Alps	(395)	North-Western Asia. Colchis
(234.41)	Mountains of Italy. Apennines	(396)	Central Asia. Bactria. Herkania
(234.425)	Mountains of Central Greece	(397)	Africa. Numidia. Carthage
(234.5)	Mountains of Central Europe	(398)	South-Eastern Europe. Dacia. Illyria
(234.6)	Mountains of Great Britain	(399)	Other regions. Ancient America
(234.7)	Mountains of Scandinavia		
(234.8)	Mountains of Russia	(4/9)	Places in the Modern World
(235)	Mountains of Asia		
(235.1)	Mountains of Asia Minor	(4)	Europe
(235.2)	Mountains of Central Asia	(41)	Great Britain and Northern Ireland and the British Commonwealth and Empire
(235.243)	Himalayas	(410)	United Kingdom of Great Britain and Northern Ireland
(235.3)	Mountains of Northern Asia	(411)	Scotland
(235.4)	Mountains of Eastern Asia	(415)	Ireland in general
(235.5)	Mountains of Southern Asia	(416)	Northern Ireland
(236)	Mountains of Africa	(417)	Eire. Irish Free State
(237)	Mountains of North America	(42)	England
(237.1)	Western section	(429)	Wales
(237.2)	Eastern section	(43)	Germany
(238)	Mountains of South America	(435.9)	Luxemburg
(239)	Mountains of Oceania, in the Arctic and Antarctic	(436)	Austria
(24)	Interior of the Earth. Caves. Grottoes	(437)	Czechoslovakia
(25)	Plains. Deserts	(438)	Poland
(26)	Oceans. Seas. At sea	(439.1)	Hungary
(261)	North Atlantic Ocean	(44)	France
(262)	Mediterranean Sea	(45)	Italy
(263)	Tropical Atlantic. Gulf of Mexico	(46)	Spain
(264)	South Atlantic Ocean. Gulf of Guinea	(469)	Portugal
(265)	Western Pacific	(47)	Russia. U.S.S.R.
(266)	Eastern Pacific	(470)	Soviet Russia proper. R.S.F.S.R.
(267)	Indian Ocean	(471.1)	Finland
(268)	Arctic Ocean	(474)	Baltic States
(269)	Antarctic Ocean	(48)	Scandinavia
(27)	Ocean Currents. Gulf Stream	(481)	Norway
(28)	Surface waters. Fresh water	(485)	Sweden
(282)	Water courses	(489)	Denmark
(282.1)	Springs. Natural wells. Underground water	(491)	Iceland. Faroe Islands
(282.2)	Rivers. Streams. <i>Subdivide like</i> (4/9)	(492)	The Netherlands (Holland)
(282.24)	European rivers	(493)	Belgium
(282.25)	Rivers of Asia	(494)	Switzerland
(282.26)	Rivers of Africa	(495)	Greece
(282.27)	Rivers of North America	(496)	Turkey in Europe
(282.28)	Rivers of South America	(496.5)	Albania
(282.29)	Rivers of Oceania	(497)	The Balkan States in general
(282.293.1)	Rivers of New Zealand	(497.1)	Yugoslavia
(282.294)	Rivers of Australia	(497.2)	Bulgaria
(282.3)	Waterfalls and rapids. Cataracts. Cascades	(498)	Rumania
(282.4)	River basins. River systems. Drainage areas. Watersheds	(499)	The Greek Archipelago
(282.5)	Navigation routes. Artificial channels. Canals	(5)	Asia
(282.6)	Estuaries. Deltas	(51)	China
(285)	Lakes. Swamps	(515)	Tibet
		(516)	Chinese Turkestan
		(517)	Mongolia
(3)	Places of the Ancient World	(518)	Manchukuo
(31)	Ancient China. Ancient Japan	(519)	Korea
(32)	Ancient Egypt	(52)	Japan
(33)	Ancient Palestine. Judaea	(53)	Arabia
(35)	Medo-Persia. Chaldea. Assyria. Babylonia. Mesopotamia	(54)	India. Ceylon
(36)	Countries of the so-called Barbarians	(55)	Persia. Iran
(363)	Germanic countries	(56)	Turkey in Asia. Asia Minor
(364)	Gaul	(564.3)	Cyprus
(366)	Britain	(566)	Armenia. Kurdistan
(37)	Ancient Rome. Italia	(567)	Irak. Mesopotamia
(38)	Ancient Greece	(569)	Syria. Palestine
(391)	Greek Archipelago. Samos. Rhodes	(569.1)	Syria
(392)	Western Asia Minor. Troy. Ionia	(569.4)	Palestine
(393)	Eastern Asia Minor	(569.5)	Transjordan
(394)	Syria and Arabia, Capadocia. Cyprus	(57)	Siberia
		(58)	Central Asia
		(581)	Afghanistan

(59)	Indo-China	(82)	Argentina
(591)	Burma	(83)	Chile
(593)	Siam, Thailand	(84)	Bolivia
(596/599)	French Indo-China	(85)	Peru
(6)	Africa	(86)	Colombia, Panama, Ecuador
(61)	Northern Africa, Berber States	(87)	Venezuela
(62)	Egypt	(881)	British Guiana
(63)	Abyssinia, Ethiopia	(882)	French Guiana
(635)	Eritrea	(883)	Dutch Guiana (Surinam)
(64)	Morocco	(892)	Paraguay
(65)	Algeria	(899)	Uruguay
(66)	North Central Africa		
(661)	Sahara	(9)	Oceania
(67)	South Central Africa	(91)	Malay Archipelago, Indonesia, The East Indies
(674)	Central Africa	(910)	Netherlands Indies in general
(675)	Belgian Congo	(911)	Borneo and surrounding islands
(676)	British East Africa, Kenya, Uganda	(912)	Celebes and surrounding islands
(677)	Somaliland	(913)	Molucca Islands
(678)	Zanzibar, Tanganyika territory	(914)	Philippine Islands
(68)	South Africa	(92)	The East Indies
(68.01)	Union of South Africa, (Transvaal, Natal, Orange Free State, Cape of Good Hope)	(921)	Sumatra
(688)	South-West Africa	(922)	Java
(689)	Rhodesia, Nyasaland	(923)	Lesser East Indian Islands
(691)	Madagascar	(93/97)	Remainder of Oceania
(7/8)	America	(93)	Australasia, Melanesia
(7)	North America	(931)	New Zealand
(71)	Canada	(94)	Australia
(712)	North-West Territories	(946)	Tasmania
(718)	Newfoundland	(95)	New Guinea
(72)	Mexico	(96)	Polynesia
(728)	Central America	(969)	Hawaiian or Sandwich Islands
(729)	West Indies	(97)	Scattered islands
(73)	United States of America (in general)	(98/99)	Polar regions
(798)	Alaska	(98)	Arctic regions
(8)	South America	(988)	Greenland
(81)	Brazil	(99)	Antarctic regions

(f) Auxiliary Numbers of Race and Nationality

Note:

These common subdivisions of Race are borrowed from the auxiliary numbers of Language and therefore agree in their subdivision. They serve to indicate the connection with race and nationality of the idea indicated by the preceding main number. Their subdivision, in so far as it is not here indicated, is like that of the common auxiliary numbers of Language and sections 4 and 8.

(= 1-5)	Colonial races and nationalities
(= 1-6)	Half-castes
(= 1.100)	Cosmopolitans
(= 1.2)	Peoples of specific geographical regions
	Subdivide like (2); e.g. (= 1.22)
	Islanders

(= 1.3)	Peoples of specific countries of antiquity
	Subdivide like (3); e.g. (= 1.37) <i>Ancient Romans</i>
(= 1.4/.9)	Peoples of specific countries
	Subdivide like (4/9); e.g. (= 1.493) <i>Belgians</i> ; (= 1.494 = 30) <i>German Swiss</i>
(= 2)	White races in general
(= 20)	Anglo-Saxons
(= 3)	Germanic races
(= 4)	Latin races
(= 8)	Slavs
(= 91)	Indo-Germanic races. Aryans
(= 92)	Semites
(= 95)	Mongols
(= 96)	Negroes
(= 99)	Australian aboriginals. Indonesians

(g) Auxiliary Numbers of Time

Note:

The common auxiliary numbers of Time are formed by the time designations according to the customary reckoning of time placed within inverted commas "...", within which the following order: year, month, day, must be observed.

Thus: "1931.06.05" 5th June, 1931.

To indicate centuries or decades 2 or 3 numerals respectively are used:

"03"	4th century
"19"	20th century
"191"	Period 1910/1919

A period which embraces several centuries or several decades is indicated by the opening and closing points of time:

"16/18" 17th to 19th centuries

The years before the birth of Christ are given the time designation — (minus sign):

“— 64” In the year 64 B.C.

If it must be explicitly recorded that a designation is associated with the Christian era, the sign + (plus sign) is placed before the time:

“+ 0090” In the year A.D. 90

The common auxiliary numbers of Time always relate to the ideas indicated by the main number itself and not to date of publication or edition.

Subdivision

“—” Antiquity
“+” Christian era in general

“04/14” Middle ages
“15/18” Modern times
“19” Contemporary time
“3/7” General ideas of time
“3” General periods of time
“31” Past, present, future
“32” Seasons. Times of year
“33” Months of the year
“36” Times of distress. Wartime. Times of crisis
“37” Time, business technique considerations. Working time
“4” Period (hours, days, months, years, etc.)
“5” Periodicity
“6” Time limits
“7” Phenomenological divisions of time (succession, simultaneity, etc.)

(h) Alphabetical Subdivision and Subdivision by Consecutive Numbers

The Universal Decimal Classification gives in principle a classification of subjects. The individuals amongst these subjects are indicated by alphabetical subdivision; e.g.

92 S or } Biography of Schiller
92 Schil or
92 Schiller }

Sometimes we want to make use of consecutive numeration. In that case the consecutive number is preceded by the designation “No.”; e.g.

656.4.02(492.621)No.12 Line 12 of the Amsterdam tramway

(i) Special Analytical Numbers

In specific special fields constantly recurring ideas such as general symptoms, machine elements and the like, may be indicated by special auxiliary numbers which are joined to the main number either by the sign — or by .0.

The special auxiliary numbers which are designated by — serve customarily for general tendencies, and find application in more than one special field, while the .0 numbers are applied more usually to one single field; e.g.

3 Social sciences
3-055.2 Women
313.11 Accident statistics
313.11-055.2 Accident statistics relating to women
331.64 Labour service
331.64-055.2 Labour service for women
629.1 Means of transport

629.1.018.3 Signalling devices for vehicles and vessels
629.118 Bicycles
629.118.018.3 Signalling devices for bicycles
629.13 Aircraft
629.135 Aeroplanes
629.13.015 Undercarriages for aircraft
629.135.015 Aeroplane undercarriages
629.1-59 Brakes on means of transport
629.135.015.12-59 Brakes on aeroplane undercarriages

In bibliographies intended for circulation, care should be taken to avoid hiding information by the use of special auxiliary numbers. Usually it is preferable to use them as a whole rather than analytically. E.g. Signalling devices for bicycles would preferably be indicated by 629.118:629.1.018.3.

(j) Auxiliary Numbers for Point of View

Note:

The common auxiliary numbers for Point of View are formed by means of the symbol .00; e.g.

.003 Economic point of view
677.46.003 The economic aspect of the artificial silk industry

These auxiliary numbers can in particular be employed usefully in subdividing records according to a special view-point. On this see the Introduction to the Auxiliary Numbers and Symbols, p. 110: Regrouping of decimal numbers according to the point of view of the organization.

.001 Theoretical point of view
Idea. Aim. Summary descriptions. Research in relation to manufacture (making), use or reproduction of the object.
.1 Pure theory. Definition. Designs. Plans. Programmes
.2 Investigations concerning realization. Conditions. Calculations

.001.3 Definition of the object
.4 Tests. See also 620.1; 543/545; 624.058
.41 Tests in putting into operation
.42 Tests during working
.43 Tests after modification or improvement
.5 Research. Scientific and technical investigation. Trial by means of models, etc.
.6 Practical development of results of research
.7 Amendment. Fresh examination. Reorganizations. Reform
.8 Comment. Appraisal. Extension of scope. Applicability

.002 Point of view of realization
Execution. Construction. Production. Raw materials. Processing
.1 Commencing phases. Manner of execution. Preparation
.2 Manufacture. Construction. Production. Processes
.3 Raw materials. Main components

- .002.4 Auxiliary materials. Additional components (Fuel. Plaster. Paint. Lubricants, etc.)
- .5 Plant, machines and apparatus for production and exploitation
- .51 Large plant. Apparatus
- .52 Auxiliary machines and auxiliary apparatus. Means of conveyance
- .53 Processing machines. *See also* 621.9
- .54 Tools. Implements
- .56 Precision instruments
- .6 Products. Intermediate products. By-products. Waste. Refuse
- .61 Generalities. Origin. Character
- .62 Intermediate products
- .63 Crude products
- .64 Finished, refined products
- .65 Superfine products
- .67 By-products
- .68 Refuse. Residue. Waste
- .69 Substitutes
- .7 Accessory work
- .71 Transport. Carriage
- .72 Mounting. Assembling
- .73 Anchorage. Foundation. Fixing
- .003 **Economic and financial point of view**
 - .1 Economic point of view
 - .2 Financial point of view
 - .3 Accountancy point of view
- .004 **Use and application point of view**
 - Accurate definition. Manner of use. Mechanical efficiency. Potentiality of application
 - .1 Use. Manner of operation. Detailed description. Technical efficiency
 - .11 Detailed description. Appearance
 - .12 Properties
 - .13 Means of operation
 - .14 Use. Application
 - .15 Technical efficiency
 - .16 Loss in materials
 - .17 Capacity. Production capacity
 - .18 Saving in materials
 - .2 Directions for use and working. Servicing instructions. Correct handling
 - .3 Putting up. Transport. Packing
 - .4 Preservation. Storage
 - .5 Maintenance. Care. Control. Cleaning
 - .6 Wear and tear. Defects. Damage. Repairs and alterations
 - .62 Wear and tear. Obsolescence
 - .63 Incidental faults and defects
 - .64 Faults. Defects
 - .67 Repairs. Reconditioning
 - .68 Renovation
- .004.7 De-servicing. Demolition. Destruction
 - .72 De-servicing
 - .74 Demolishing. Destroying. Abolition
 - .8 Use of waste. Recovery. Reconstitution
 - .82 Use of waste and residues
 - .86 Recovery
 - .87 Reconstitution
 - .9 Other operations allied to exploitation
- .005 **Point of view of apparatus and equipment**
- .006 **Point of view of working space, buildings and localities**
 - .1 Working space for direction and management. Official residences
 - .2 Space for training, research and design. Work-rooms and drawing offices. Laboratories. Agricultural trial grounds. Rifle ranges. Drill grounds. Race courses
 - .3 Spaces for making and construction. Workshops. Studios. Factories. Yards
 - .4 Spaces for business and trade. Business houses. Offices of commercial concerns
 - .5 Space for storage. Warehouses. Depots
 - .6 Space for watching and protection. Caretaker's residence. Aid posts. Barracks. Fortified posts
- .007 **Point of view of staff**
 - .1 Direction. Scientific staff. Higher staff
 - .2 Technical staff. Working managers. Foremen. Workers
 - .3 Commercial strength. Bookkeepers. Clerks
 - .4 Service and caretaking staff. Subsidiary strength
- .008 **Point of view of organization**
 - See also* 651/658
 - .03 Co-ordination
 - .041 Centralization
 - .042 Decentralization
 - .1 Highest direction. Conclusive and legislative organs
 - .2 Management. Everyday direction
 - .3 Execution. Executives
 - .4 Recommendations. Advisory opinion. Experts. Specialists
- .009 **Social and ethical point of view**
 - Relations to third-parties
 - .01 Collaboration. Co-operation
 - .02 Opposition. Competition. Rivalry
 - .03 Legal obligation
 - .1 Relation to higher entities
 - .2 Relation to equals
 - .3 Relation to lower entities
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